**Earliest Priority Filing Date:** 

# SEARCH REQUEST FORMCENEL

Access DB#

Scientific and Technical Information Genter Examiner # : Serial Number: Phone Number 30 Mail Box and Bldg/Room Location: 1007, CM Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Inventors (please provide full names):

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please rearch claim 1, 4, 7 and the method daim of 29

STAFF USE ONLY Searcher:	Type of Search  NA Sequence (#)	Vendors and cost where applicable
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up:	Bibliographic	Dr.Link
Date Completed: (v - 4 - 0 - 5	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time:	Other	Other (specify)

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# STIC Search Report Biotech-Chem Library

### STIC Database Tracking Number: 94606.

**TO: Dwayne C Jones** 

Location: mail 2D01; room 2D07

Art Unit: 1614/

Wednesday, June 04, 2003

Case Serial Number: 778290

From: Barb O'Bryen

**Location: Biotech-Chem Library** 

CM1-6A05

Phone: 308-4291

poss

barbara.obryen@uspto.gov

### Search Notes



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# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor 308-4258, CM1-1E01

701	untary Nesurts recuback rom
>	I am an examiner in Workgroup: Example: 1610
>	Relevant prior art found, search results used as follows:
	☐ 102 rejection
	☐ 103 rejection
	☐ Cited as being of interest.
	☐ Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found:
	☐ Foreign Patent(s)
	Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
>	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	Results were not useful in determining patentability or understanding the invention.
Co	omments:

Drop off or send completed forms to STIC/Elotech-Chem Library Cliff - Circ. Desi



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```
e ADRENERGIC ALPHA-ANTAGONISTS+all/ct
E1
             0
                  BT6
                        D Chemicals and Drugs/CT
             0
                   BT5
                         Chemical Actions and Uses/CT
E2
             0
                    BT4
                          Chemical Actions/CT
E3
             0
                   BT5
                         D Chemicals and Drugs/CT
E4
             0
                    BT4
                          Neurotransmitters and Neurotransmitter Agents/CT
E5
                     BT3
                           Neurotransmitter Agents/CT
E6
            66
                            Adrenergic Agents/CT
           723
                      BT2
E7
                             Adrenergic Antagonists/CT
E8
           442
E9
                              Adrenergic alpha-Antagonists/CT
         10288
                        MN
                              D14.100.50.200.100./CT
E10
         10288
                              D27.505.583.50.200.100./CT
                        MN
         10288
E11
                         DC
                               an INDEX MEDICUS major descriptor
                         NOTE Drugs that bind to but do not activate
                               alpha-adrenergic receptors thereby blocking the
                               actions of endogenous or exogenous adrenergic
                                agonists. Adrenergic alpha-antagonists are used
                                in the treatment of hypertension, vasospasm,
                               peripheral vascular disease, shock, and
                               pheochromocytoma.
                         INDX
                               GEN or unspecified; prefer specifics; do not
                               confuse with ADRENERGIC ALPHA-AGONISTS; DF:
                               ADREN ALPHA ANTAG
                         ΑQ
                               AD AE AN BL CF CH CL CS CT DU EC HI IM IP ME PD
                                PK PO RE SD ST TO TU UR
                         PNTE
                               Sympatholytics (1966-1968)
                                95; was ADRENERGIC ALPHA RECEPTOR BLOCKADERS
                         HNTE
                                1969-94 (Prov 1969-72)
                               use ADRENERGIC ALPHA-ANTAGONISTS to search
                         ONTE
                               ADRENERGIC ALPHA RECEPTOR BLOCKADERS 1969-94 (as
                                Prov 1969-72)
                               NLM (1969)
                         MHTH
E12
                         UF
                               ADREN ALPHA ANTAG/CT
E13
             0
                         UF
                               Adrenergic alpha Antagonists/CT
E14
             0
                         UF
                               Adrenergic alpha Blockers/CT
             0
                         UF
                               Adrenergic alpha Receptor Blockaders/CT
E15
E16
             0
                         UF
                               Adrenergic alpha-Blockers/CT
E17
             0
                         UF
                               Adrenergic alpha-Receptor Blockaders/CT
E18
             0
                         UF
                               Agents, alpha-Adrenergic Blocking/CT
E19
             0
                         UF
                                Blockaders, Adrenergic alpha-Receptor/CT
E20
             0
                         UF
                                Blockaders, alpha-Adrenergic Receptor/CT
E21
             0
                         UF
                                Blockers, alpha-Adrenergic/CT
E22
             0
                         UF
                                Blocking Agents, alpha-Adrenergic/CT
E23
             0
                         UF
                                Receptor Blockaders, alpha-Adrenergic/CT
E24
             0
                         UF
                               alpha Adrenergic Blockers/CT
E25
             0
                         UF
                                alpha Adrenergic Blocking Agents/CT
E26
             0
                         UF
                               alpha Adrenergic Receptor Blockaders/CT
£27
             0
                         UF
                                alpha Blockers, Adrenergic/CT
E28
             0
                         UF
                                alpha-Adrenergic Blockers/CT
E29
             0
                         UF
                                alpha-Adrenergic Blocking Agents/CT
E30
             0
                         UF
                                alpha-Adrenergic Receptor Blockaders/CT
E31
             0
                         UF
                                alpha-Antagonists, Adrenergic/CT
E32
             0
                         UF
                                alpha-Blockers, Adrenergic/CT
E33
             0
                         UF
                                alpha-Receptor Blockaders, Adrenergic/CT
E34
           439
                         NT1
                                Dibenamine/CT
£35
           954
                         NT1
                                Dihydroergotoxine/CT
                                                          ( & advening is antagonists according to Medline
E36
           512
                          NT2
                                 Ergoloid Mesylates/CT
E37
           645
                         NT1
                                Doxazosin/CT
E38
           512
                         NT1
                               Ergoloid Mesylates/CT
E39
          1131
                         NT1
                                Idazoxan/CT
E40
           202
                         NT1
                                Indoramin/CT
```

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E41	1474	NT1	Labetalol/CT /	_
E42	1428	NT1	Mianserin/CT	
E43	265	NT1	Moxisylyte/CT	,
E44	296	NT1	Nicergoline/CT	
E45	4513	NT1	Phenoxybenzamine/CT	1
E46	8184	NT1	Phentolamine/CT	1
E47	150	NT1	Piperoxan/CT	7
E48	6270	NT1	Prazosin/CT	
E49	645	NT2	Doxazosin/CT	(
E50	4551	NT1	Quinidine/CT	\
E51	816	NT1	Tolazoline/CT	1
E52	4528	NT1	Yohimbine/CT	)
*****	END***		•	ſ

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```
=> e e31+all
                  BT6
                        D Chemicals and Drugs/CT
E1
                          Chemical Actions and Uses/CT
                   BT5
E.2
              0
                    BT4
                           Chemical Actions/CT
E.3
                          D Chemicals and Drugs/CT
F.4
              0
                   BT5
                           Neurotransmitters and Neurotransmitter Agents/CT
             0
                    BT4
E5
             66
                     BT3
                            Neurotransmitter Agents/CT
E6
                             Cholinergic Agents/CT
E7
           802
                      BT2
                              Cholinergic Antagonists/CT
          1379
                       BT1
E8
                               Muscarinic Antagonists/CT
E9
           3097
                               D14.100.120.200.500./CT
           3097
                        MN
E10
           3097
                        MN
                               D27.505.583.120.200.500./CT
E11
                                an INDEX MEDICUS major descriptor
                          NOTE Drugs that bind to but do not activate
                                muscarinic cholinergic receptors (RECEPTORS,
                                MUSCARINIC), thereby blocking the actions of
                                endogenous acetycholine or exogenous agonists.
                                Muscarinic antagonists have widespread effects
                                including actions on the iris and ciliary muscle
                                             the heart and blood vessels,
                                of the eye,
                                secretions of the respiratory tract, GI system,
                                and salivaryglands, GI motility, urinary bladder
                                tone, and the central nervous system.
                                Antagonists that discriminate among the various
                                muscarinic receptor subtypes and might allow
                                better control of peripheral and central actions
                                are under development.
                          INDX
                                GEN or unspecified; prefer specifics; DF:
                                MUSCARINIC ANTAG
                          ΑQ
                                AD AE AN BL CF CH CL CS CT DU EC HI IM IP ME PD
                                PK PO RE SD ST TO TU UR
                          PNTE
                                Parasympatholytics (1966-1994)
                                95; ANTIMUSCARINIC AGENTS was see
                          HNTE
                                PARASYMPATHOLYTICS 1969-94
                          ONTE
                                use PARASYMPATHOLYTICS to search ANTIMUSCARINIC
                                AGENTS 1969-94
                          MHTH
                                NLM (1995)
                          UF
                                Agents, Antimuscarinic/CT
E12
              0
                          UF
                                Antagonists, Muscarinic/CT
E13
              0
              0
                          UF
                                Antimuscarinic Agents/CT
E14
                          UF
                                MUSCARINIC ANTAG/CT
E15
              0
         20760
                          NT1
                                Atropine/CT
E16
           1059
                           NT2
                                 Atropine Derivatives/CT
E17
                            рт3
E18
           1323
                                  Ipratropium/CT
            499
                          NT1
E19
                                Benactyzine/CT
                          NT1
                                Benztropine/CT
E20
            553
            325
                          NT1
                                Biperiden/CT
E21
                          NT1
                                Butylscopolammonium Bromide/CT
E22
            291
                          NT1
E23
            221
                                Cyclopentolate/CT
E24
            109
                          NT1
                                Dexetimide/CT
E25
            127
                          NT1
                                Dicyclomine/CT
                                                                      mus carinic antagonists antagonists ) according to medine
E26
                          NT1
            116
                                Emepronium/CT
E27
            478
                          NT1
                                Glycopyrrolate/CT
E28
                          NT1
            334
                                Orphenadrine/CT
E29
                          NT1
            111
                                Oxyphenonium/CT
                          NT1
E30
           3192
                                Pirenzepine/CT
                          NT1
E31
            153
                                Procyclidine/CT
E32
            503
                          NT1
                                Propantheline/CT
                                Propylbenzilylcholine Mustard/CT
E33
            107
                          NT1
E34
           4551
                          NT1
                                Quinidine/CT
E35
           1967
                          NT1
                                Quinuclidinyl Benzilate/CT
```

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E36	4678	NT1	Scopolamine/CT
E37	1138	NT2	Scopolamine Derivatives/CT
E38	291	NT3	Butylscopolammonium Bromide/CT
E39	833	NT3	N-Methylscopolamine/CT
E40	642	NT1	Trihexyphenidyl/CT
E41	283	NT1	Tropicamide/CT
E42	9615	RT	Parasympatholytics/CT
*****	END***		

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TITLE:

The pharmacological treatment of urinary incontinence.

AUTHOR:

Andersson K E; Appell R; Cardozo L D; Chapple C; Drutz H P;

Finkbeiner A E; Haab F; Vela Navarrete R

CORPORATE SOURCE:

The Department of Clinical Pharmacology, Lund University Hospital, Lund, Sweden.. Karl-Erik.Andersson@klinfarm.lu.se

SOURCE:

BJU INTERNATIONAL, (1999 Dec) 84 (9) 923-47. Ref: 280

Journal code: DCU; 100886721. ISSN: 1464-4096.

PUB. COUNTRY:

ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW LITERATURE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200001

ENTRY DATE:

Entered STN: 20000204

Last Updated on STN: 20000204 Entered Medline: 20000127

L118 ANSWER 2 OF 73

MEDLINE

DUPLICATE 4

ACCESSION NUMBER:

......

94167741 MEDLINE

DOCUMENT NUMBER: TITLE:

94167741 PubMed ID: 7907192 Effects of intravesically administered anticholinergics,

beta-adrenergic stimulant and alpha-adrenergic blocker on

bladder function in unanesthetized rats.

AUTHOR:

Wkimura O

CORPORATE SOURCE:

Department of Urology, Kyoto Prefectural University of

Medicine.

SOURCE:

TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE, (1993 Aug) 170 (4)

251-60.

Journal code: VTF; 0417355. ISSN: 0040-8727.

PUB. COUNTRY:

Japan

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199404

ENTRY DATE:

Entered STN: 19940412

Last Updated on STN: 19950206 Entered Medline: 19940405

AB Comparative analysis of the effects of intravesical instillation of drugs on urodynamic parameters (MYP, maximum intravesical pressure; RR, residual rate; BC, bladder capacity) was performed using an experimental model in unanesthetized rats. The drugs investigated in this study were\_atropine  $(7.2 \times 10(-4)-7.2 \times 10(-2) \text{ M})$ , propantheline  $(7.2 \times 10(-3)-2.2 \times 10(-2)$ M), oxybutynin  $(2.5 \times 10(-3)-2.5 \times 10(-2) \text{ M})$ , isoproterenol  $(5 \times 10)$ 10(-2)-10(-1) M) and prazosin (5 x 10(-4) M). Of the anticholinergies, propantheline and oxybutynin showed a remarkable suppression of MVP accompanied with a consistent increase of RR and BC in a dose-dependent manner. Atropine showed, however, no suppression of MVP in spite of a significant change of RR and BC. Isoproterenol suppressed MVP with an increase of RR and BC in a dose-dependent manner at a relatively high concentration. Prazosin increased BC and RR at a relatively low concentration. This study revealed that these intravesical drugs have the ability to suppress spontaneous bladder contraction in unanesthetized rats and to change the micturition function in the urinary filling and storage phases. It is expected that intravesical instillation therapy for detrusor hyperreflexia will be improved in the future based upon the data obtained.

L118 ANSWER 3 OF 73

MEDLINE

2001145109 MEDLINE

ACCESSION NUMBER: DOCUMENT NUMBER:

20567028 PubMed ID: 11114562

TITLE:

Advancements in pharmacologic management of the overactive

bladder.

AUTHOR:

Dmochowski R)R; Appell R A

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Page 1

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STRUCTURE FILE UPDATES: 3 JUN 2003 HIGHEST RN 524916-37-8 DICTIONARY FILE UPDATES: 3 JUN 2003 HIGHEST RN 524916-37-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e tet	razosin/cn	
E1 .	1	TETRAZOMINE DIHYDROCHLORIDE/CN
E2	1	TETRAZONE/CN
E3	0>	TETRAZOSIN/CN assumed inventor meant terazosin
E4	1	TETRAZOTIZED 3,3'-DICHLOROBENZIDINE/CN
E5	1	TETRAZOTIZED 4,4'-DIAMINO STILBENE/CN
E6	1	TETRAZOTIZED 4,4'-DIAMINO-2,2',5,5'-TETRAMETHYLTRIPHENYLMETH
		ANE/CN .
E7	1	TETREHYMANOL/CN
E8	1	TETREN/CN
E9	1	TETRENE/CN
E10	1	TETRENOLIN/CN
E11	1 .	TETRETHYL/CN
E12	1	TETRETHYLENE GLYCOL DIMETHACRYLATE-N-VINYLCARBAZOLE COPOLYME
		R/CN .

=> fil capl; d que 133
FILE 'CAPLUS' ENTERED AT 11:57:03 ON 04 JUN 2003
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FILE COVERS 1907 - 4 Jun 2003 VOL 138 ISS 23 FILE LAST UPDATED: 3 Jun 2003 (20030603/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
1 SEA FILE=REGISTRY ABB=ON 210538-44-6
L4
              3 SEA FILE=REGISTRY ABB=ON DOXAZOSIN?/CN
L5
              3 SEA FILE=REGISTRY ABB=ON TERAZOSIN?/CN
L6
              1 SEA FILE=REGISTRY ABB=ON ABANOQUIL/CN
L7
              5 SEA FILE=REGISTRY ABB=ON PRAZOSIN?/CN
L8
                                          INDORAMIN?/CN
              5 SEA FILE=REGISTRY ABB=ON
L9
                                          DARIFENACIN?/CN
              2 SEA FILE=REGISTRY ABB=ON
L10
                                           TOLTERODINE?/CN
              2 SEA FILE=REGISTRY ABB=ON
L11
                                          OXYBUTYNIN?/CN
              3 SEA FILE=REGISTRY ABB=ON
L12
           2860 SEA FILE=CAPLUS ABB=ON ADRENOCEPTOR ANTAGONISTS+OLD/CT(L)ALPHA
L13
                                        ALPHA(L)(ADRENOCEPTOR ANTAGONIST#)/OBI
           1702 SEA FILE=CAPLUS ABB=ON
L14
                                         (L4 OR L5 OR L6 OR L7 OR L8 OR L9)
           2879 SEA FILE=CAPLUS ABB=ON
L15
                                         (DOXAZOSIN# OR TETRAZOSIN# OR TERAZOSIN
           2566 SEA FILE=CAPLUS ABB=ON
L16
                 # OR ABANOQUIL# OR PRAZOSIN# OR INDORAMIN#)/OBI
                                        MUSCARINIC ANTAGONISTS+OLD/CT
           1465 SEA FILE=CAPLUS ABB=ON
L17
                                         MUSCARINIC (2A) ANTAGONIST#/OBI
           1859 SEA FILE=CAPLUS ABB=ON
L18
                                         (L10 OR L11 OR L12)
            472 SEA FILE=CAPLUS ABB=ON
L19
                                         (DARIFENACIN# OR TOLTERODIN# OR
            479 SEA FILE=CAPLUS ABB=ON
L20
                OXYBUTYNIN#)/OBI
                                         DRUG INTERACTIONS+OLD/CT
          27544 SEA FILE=CAPLUS ABB=ON
L21
                                         DRUG DELIVERY SYSTEMS+OLD/CT(L)COMBIN?
           1888 SEA FILE=CAPLUS ABB=ON
L22
                                         DRUG INTERACTIONS+NT/CT OR L21
           27544 SEA FILE=CAPLUS ABB=ON
L32
                                         (L13 OR L14 OR L15 OR L16) AND (L17 OR
               5 SEA FILE=CAPLUS ABB=ON
L33
                 L18 OR L19 OR L20) AND (L22 OR L32)
```

=> fil medl; d que 159; d que 167; d que 176; d que 184; d que 185

FILE 'MEDLINE' ENTERED AT 11:57:04 ON 04 JUN 2003

FILE LAST UPDATED: 3 JUN 2003 (20030603/UP). FILE COVERS 1958 TO DATE.

On April 13, 2003, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See http://www.nlm.nih.gov/mesh/changes2003.html for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L4		SEA FILE=REGISTRY ABB=ON	
L5		SEA FILE=REGISTRY ABB=ON	
L6		SEA FILE=REGISTRY ABB=ON	
L7		SEA FILE=REGISTRY ABB=ON	-
L8		SEA FILE=REGISTRY ABB=ON	
L9		SEA FILE=REGISTRY ABB=ON	
L10		SEA FILE=REGISTRY ABB=ON	
L11	2	SEA FILE=REGISTRY ABB=ON	TOLTERODINE?/CN
L12	3	SEA FILE=REGISTRY ABB=ON	OXYBUTYNIN?/CN
L36	6827	SEA FILE=MEDLINE ABB=ON	(L4 OR L5 OR L6 OR L7 OR L8 OR L9)
L37	6643	SEA FILE=MEDLINE ABB=ON	DOXAZOSIN/CT OR PRAZOSIN/CT
L38	. 529	SEA FILE=MEDLINE ABB=ON	TETRAZOSIN# OR TERAZOSIN# OR HYTRIN#
		OR A45975 OR A 45975 OR .	ABANOQUIL OR UK52046 OR UK 52046
L39	283	SEA FILE=MEDLINE ABB=ON	INDORAMIN# OR WY21901 OR WY 21901
L40	475	SEA FILE=MEDLINE ABB=ON	(L10 OR L11 OR L12)
L41	652	SEA FILE=MEDLINE ABB=ON	DARIFEN!CIN# OR TOLTERODIN# OR DETROL
		OR OXYBUTYNIN# OR CYSTRI	
L59	4		(L36 OR L37 OR L38 OR L39) AND (L40
		OR L41)	
		,	
		•	
L53	10288	SEA FILE=MEDLINE ABB=ON	ADRENERGIC ALPHA-ANTAGONISTS/CT
L54		SEA FILE=MEDLINE ABB=ON	MUSCARINIC ANTAGONISTS/CT
L63		SEA FILE=MEDLINE ABB=ON	L53(L) (AD OR PD OR PK OR TU)/CT
L64		SEA FILE=MEDLINE ABB=ON	L54(L) (AD OR PD OR PK OR TU)/CT
L66		SEA FILE=MEDLINE ABB=ON	DRUG COMBINATIONS+NT/CT OR DRUG
поо	100400	THERAPY, COMBINATION/CT	bitto opingituitions tilly of oil bitto
L67	3	SEA FILE=MEDLINE ABB=ON	L63 AND L64 AND L66
шол	5	SEM LIDE-HEDDING WOD-ON	103 AND 104 AND 100
		•	
L35	885	SEA FILE=MEDLINE ABB=ON	RECEPTORS, ADRENERGIC, ALPHA+NT/CT(L)A
100		I/CT	
L46		SEA FILE=MEDLINE ABB=ON	ADRENERGIC ALPHA-ANTAGONISTS+NT/CT
L47		SEA FILE=MEDLINE ABB=ON	MUSCARINIC ANTAGONISTS+NT/CT
L66	•	SEA FILE=MEDLINE ABB=ON	DRUG COMBINATIONS+NT/CT OR DRUG
поо	103403	THERAPY, COMBINATION/CT	PYOR CONDITATIONS (MI) CI OK PYOR
L74	602	SEA FILE=MEDLINE ABB=ON	L66/MAJ
		SEA FILE=MEDLINE ABB=ON	
L76	. 2	SEA FILE-MEDLINE ABB-ON	(L35 OR L46) AND L47 AND L74
L35	225	SEA FILE=MEDLINE ABB=ON	RECEPTORS, ADRENERGIC, ALPHA+NT/CT(L)A
шээ	003	I/CT	
L46	37197	SEA FILE=MEDLINE ABB=ON	ADRENERGIC ALPHA-ANTAGONISTS+NT/CT Suppleading
L47		SEA FILE=MEDLINE ABB=ON	MUSCARINIC ANTAGONISTS+NT/CT AI: antagonists
L66		SEA FILE=MEDLINE ABB=ON	ADRENERGIC ALPHA-ANTAGONISTS+NT/CT  MUSCARINIC ANTAGONISTS+NT/CT  DRUG COMBINATIONS+NT/CT OR DRUG  Sinhibitors
700	103403		Sy Wighters
L69	30762	THERAPY, COMBINATION/CT SEA FILE=MEDLINE ABB=ON	IACITAD OD DD OD DK OD MILA COM
			L46(L) (AD OR PD OR PK OR TU)/CT
L70		SEA FILE-MEDLINE ABB-ON	L47 (L) (AD OR PD OR PK OR TU) /CT
L79		SEA FILE-MEDLINE ABB-ON	QUINIDINE/CT - Medline considers this an oradrenergic
L80		SEA FILE=MEDLINE ABB=ON	(L35 OR L46) NOT L79 receptor antagonist & a
L81		SEA FILE=MEDLINE ABB=ON	(L35 OR L46) NOT L79  L47 NOT L79  L80 AND L81 AND L66  DO I had to remove it from The answer
L82	32	SEA FILE=MEDLINE ABB=ON	L80 AND L81 AND L66 BO I had to remove
			it from The answer
			V

Searched by Barb O'Bryen, STIC 308-4291

set

L35	885	SEA FILE=MEDLINE ABB=ON	RECEPTORS, ADRENERGIC, ALPHA+NT/CT(L)A
L46 L47 L66	40225	I/CT SEA FILE=MEDLINE ABB=ON SEA FILE=MEDLINE ABB=ON SEA FILE=MEDLINE ABB=ON THERAPY, COMBINATION/CT	ADRENERGIC ALPHA-ANTAGONISTS+NT/CT MUSCARINIC ANTAGONISTS+NT/CT DRUG COMBINATIONS+NT/CT OR DRUG
L79 L80 L81 L82 L85	32861 35674 32	SEA FILE=MEDLINE ABB=ON	QUINIDINE/CT (L35 OR L46) NOT L79 L47 NOT L79 L80 AND L81 AND L66 GENERAL REVIEW/DT AND L82

=> s 159 or 167 or 176 or 184 or 185

14 L59 OR L67 OR L76 OR L84 OR L85

=> fil embase; d que 1107;d que 1113

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FILE COVERS 1974 TO 29 May 2003 (20030529/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L86	5910 SEA FILE=EMBASE ABB=ON	ALPHA ADRENERGIC RECEPTOR BLOCKING
	AGENT/CT	DOXAZOSIN/CT OR DOXAZOSIN DERIVATIVE/CT
T88	2306 SEA FILE=EMBASE ABB=ON OR DOXAZOSIN MESYLATE	
	TOP ON ADD ON	TERAZOSIN/CT
L89	1452 SEA FILE=EMBASE ABB=ON 37 SEA FILE=EMBASE ABB=ON	
L90	3/ SEA FILE-EMPAGE ADD-ON	PRAZOSIN/CT OR PRAZOSIN DERIVATIVE/CT
L91	16803 SEA FILE-EMBASE ABB-ON	
L92	704 SEA FILE=EMBASE ABB=ON	$\cdot$
* 0.2	2282 SEA FILE=EMBASE ABB=ON	MUSCARINIC RECEPTOR BLOCKING AGENT/CT
L93	92 SEA FILE=EMBASE ABB=ON	DARTFENACTN/CT
L95	410 SEA FILE=EMBASE ABB=ON	
L9 <u>.</u> 6	CT	
* 07	1627 SEA FILE=EMBASE ABB=ON	OXYBUTYNIN/CT
L97	1212 SEA FILE=EMBASE ABB=ON	(L86 OR (L88 OR L89 OR L90 OR L91 OR
L105	L92))(L)CB/CT	•
L106	191 SEA FILE=EMBASE ABB=ON	(L93 OR (L95 OR L96 OR L97))(L)CB/CT
L100	8 SEA FILE=EMBASE ABB=ON	1 L105 AND L106 Subheading
D10 /	o bin rilla zizio	10 = dona
		L105 AND L106  CB = drug  combination
		proprop procedur
L86	5910 SEA FILE=EMBASE ABB=ON	ALPHA ADRENERGIC RECEITOR BEGGING
	AGENT/CT	N DOXAZOSIN/CT OR DOXAZOSIN DERIVATIVE/CT
L88	2306 SEA FILE=EMBASE ABB=ON	
	OR DOXAZOSIN MESYLATI	L/CT
L89	1452 SEA FILE=EMBASE ABB=ON	N TERAZOSIN/CT
L90	37 SEA FILE=EMBASE ABB=O	N ABANOQUIL/CT N PRAZOSIN/CT OR PRAZOSIN DERIVATIVE/CT
L91	16803 SEA FILE-EMBASE ABB-O	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
L92	704 SEA FILE=EMBASE ABB=O	N INDOKAMINACI OK INDOKAMIN PRIKIAMITATION

L93 L95 L96	92	SEA FILE=EM	IBASE ABB=ON IBASE ABB=ON IBASE ABB=ON	MUSCARINIC RECEPTOR BLOCKING AGENT/CT DARIFENACIN/CT TOLTERODINE/CT OR TOLTERODINE TARTRATE/
L97 L108 L109	251	SEA FILE=EM	IBASE ABB=ON IBASE ABB=ON IBASE ABB=ON	OXYBUTYNIN/CT (L93 OR (L95 OR L96 OR L97))(L)IT/CT (L86 OR (L88 OR L89 OR L90 OR L91 OR
L112 L113		SEA FILE=EM	BASE ABB=ON	BLADDER CONTRACTION/CT L108 AND L109 AND L112

=> s 1107 or 1113

L140 9 L107 OR L113

=> fil wpids; d que 1137

FILE 'WPIDS' ENTERED AT 11:57:07 ON 04 JUN 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

FILE LAST UPDATED: 3 JUN 2003 <20030603/UP>
MOST RECENT DERWENT UPDATE: 200335 <200335/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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  http://www.derwent.com/userguides/dwpi\_guide.html <<<</pre>

L116	508	SEA FILE-WPIDS ABB=ON (ADRENOCEPTOR OR ADRENERGIC) (2A) ALPHA (2A ) (ANTAGONIST# OR BLOCK?)
L117	112	SEA FILE=WPIDS ABB=ON DOXAZOSIN# OR CARDURA# OR UK33274 OR UK
L118	79	SEA FILE=WPIDS ABB=ON TETRAZOSIN# OR TERAZOSIN# OR HYTRIN# OR A45975 OR A 45975
L119	4	SEA FILE=WPIDS ABB=ON ABANOOUIL# OR UK52046 OR UK 52046
L120	200	SEA FILE=WPIDS ABB=ON PRAZOSIN# OR FURAZOSIN# OR PRATSIOL#
L121	31	SEA FILE=WPIDS ABB=ON INDORAMIN# OR WY21901 OR WY 21901
L122	183	SEA FILE=WPIDS ABB=ON MUSCARINIC(2A) (ANTAGONIST# OR BLOCK?)
L123	124	SEA FILE=WPIDS ABB=ON DARIFEN!CIN# OR TOLTERODIN# OR DETROL
		OR OXYBUTYNIN# OR CYSTRIN# OR OXYTROL#
L130	781663	SEA FILE=WPIDS ABB=ON COMBIN? OR SIMULTANEOUS? OR SEQUENTIAL?
L136	373681	SEA FILE=WPIDS ABB=ON MIXTUR?
L137	5	SEA FILE=WPIDS ABB=ON (L116 OR L117 OR L118 OR L119 OR L120 OR L121) AND (L122 OR L123) AND (L130 OR L136)

=> dup rem 133,1139,1140,1137 FILE 'CAPLUS' ENTERED AT 11:57:30 ON 04 JUN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 11:57:30 ON 04 JUN 2003

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PROCESSING COMPLETED FOR L33
PROCESSING COMPLETED FOR L139
PROCESSING COMPLETED FOR L140
PROCESSING COMPLETED FOR L137.
L141 31 DUP REM L33 L139 L140 L137 (2 DUPLICATES REMOVED)

ANSWERS '1-5' FROM FILE CAPLUS
ANSWERS '6-19' FROM FILE MEDLINE
ANSWERS '20-28' FROM FILE EMBASE
ANSWERS '29-31' FROM FILE WPIDS

=> d ibib ab hitrn 1-5; d iall 6-31

L141 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1

ACCESSION NUMBER: 2001:594376 CAPLUS

DOCUMENT NUMBER:

135:185453

TITLE:

SOURCE:

Pharmaceutical combinations for treating lower urinary

tract disfunctions Wyllie, Michael Grant

INVENTOR(S):
PATENT ASSIGNEE(S):

Pfizer Products Inc., USA Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
EP 1123705	A1	20010816	== = : :	
			FR, GB, GR, IT, LI, LU, NL, SE, MC, PT	,
IE, SI,	LT, LV	, FI, RO		
CA 2334460	AA	20010809	CA 2001-2334460 20010207	
US 2001044438	A1	20011122	us 2001-778290 20010207	
NZ 509807	A	20020927	NZ 2001-509807 20010208	
PRIORITY APPLN. INFO	·.:	•	US 2000-181310P P 20000209	

Pharmaceutical combinations suitable for treating the lower urinary tract symptoms assocd. with benign prostatic hyperplasia in men contain an .alpha.-adrenoceptor antagonist and a muscarinic antagonist. The combinations of the invention are particularly suitable for treating moderate or severe lower urinary tract symptoms. Thus, tablet contained doxazosin mesylate 4.05, microcryst. cellulose 125.28, lactose 66.67, sodium starch glycolate 2.00, and Mg stearate 2.00% by wt.

IT 5633-20-5, Oxybutynin 19216-56-9, Prazosin 26844-12-2, Indoramine 63590-64-7, Terazosin 74191-85-8, Doxazosin 77883-43-3, Doxazosin mesylate 90402-40-7, Abanoquil 124937-51-5, Tolterodine 133099-04-4, Darifenacin 133099-07-7, Darifenacin hydrobromide 210538-44-6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical combinations for treating lower urinary tract

Jones 09/778290 Page 7

disfunctions)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L141 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2

2000:725447 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 133:301178

TITLE: Use of CYP2D6 inhibitors in combination therapies

INVENTOR(S): Obach, Ronald Scott

Pfizer Products Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 18 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.		KI	ND .	DATE			A	PPLI	CATI	ON NO	ο.	DATE		•	
	2000 2000					2000			M	0 20	00-1	B304		2000	0320		
	₩:	CZ,	DE,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	CH, HR,	HU,	ID,	IL,
		MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	LT,	SE,	SG,	SI,
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	MT	·	•		•	YU,	·	•	•
	RW:	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	BE, SE,	•	- '	•
	2000	0095	64	À	·		0108		B	R 20	00-9	564					
EP	1242 R:	AT,	BE,	CH,	DE,		ES,	FR,	GB,	GR,				NL,		MC,	PT,
	2001 2001	0052	4	Ä	·	2002	1216	•	E	E 20				2000		. •	
	1060	75		A					В	G 20	01-1	0607	5	2001: 1999:	1101		
									WO 2	000-	IB30	4	W	2000			

AΒ This invention relates to the use of a CYP2D6 inhibitor in combination with a drug having CYP2D6-catalyzed metab., wherein the drug and the CYP2D6 inhibitor are not the same compd.; and pharmaceutical compns. for said use.

#### TT 5633-20-5, Oxybutynin 26844-12-2, Indoramin 124937-51-5, Tolterodine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (use of CYP2D6 inhibitors in combination therapies)

L141 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2003 ACS 2003:147944 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: 138:193282

TITLE: Use of .alpha.-adrenoceptor antagonist in combination with

muscarinic antagonist for medicament

INVENTOR(S): Wayley, Michael Grant PATENT ASSIGNEE(S): Pfizer Products Inc., USA

Jpn. Kokai Tokkyo Koho, 36 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE:

FAMILY ACC. NUM. COUNT:

SOURCE:

Japanese

#### PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ 20010808 JP 2001-240717 JP 2003055261 A2 20030226 20010808 JP 2001-240717 PRIORITY APPLN. INFO.: The invention relates to pharmaceutical combinations suitable for treating the lower urinary tract symptoms (LUTS) assocd. with benign prostatic hyperplasia (BPH) in men, which combinations contain an .alpha.-adrenoceptor antagonist and a muscarinic antagonist. The combinations of the invention are particularly suitable for treating moderate or severe LUTS. A combination immediate-release darifenacin/doxazosin tablet contg. doxazosin mesylate 4.05, darifenacin hydrobromide 2.976, microcryst. cellulose 125.28, lactose 63.694, sodium starch glycollate 2, magnesium stearate 2 mg was prepd. 5633-20-5, Oxybutynin 19216-56-9, ΙT Prazosin 26844-12-2, Indoramin 74191-85-8, Doxazosin 77883-43-3, Doxazosin mesylate 90402-40-7, Abanoquil 124937-51-5, Tolterodine 133099-04-4, Darifenacin 133099-07-7, Darifenacin hydrobromide 210538-44-6 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (use of .alpha.-adrenoceptor antagonist in combination with muscarinic antagonist for treatment of benign prostatic hyperplasia)

L141 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2003:153396 CAPLUS

DOCUMENT NUMBER:

138:180766

TITLE:

Use of BIBN4096BS in combination with other

antimigraine medications for the treatment of

headache, migraine or cluster headache

Doods, Henri; Hurnaus, Rudolf; Eberlein, Wolfgang Boehringer Ingelheim Pharma KG, Germany

INVENTOR(S): PATENT ASSIGNEE(S):

Ger. Offen., 14 pp.

SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

EVIDI	4 T	INI OIG	11111					٠.			•							
	PATENT NO.				KII	ND :	DATE			AI	PLIC	CATIO	ON NO	). :	DATE	<u>-</u> _		
	DE 10139410			Δ1		20030227		DE 2001-10139410 20010817										
	MO 2003015787								WO 2002-EP8993 20020810 AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,									
	***	Z000	ΔF	AG	AT.	ΔM.	AΤ.	AU.	AZ.	BA,	BB,	ΒG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO	CR.	CU.	$CZ_{i}$	DE.	DK.	DM,	DZ,	EC,	EE,	ES,	ĽΙ,	GB,	GU,	GE,	GII,
			GM.	HR.	HU.	ID.	IL.	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	KΖ,	LC,	ъĸ,	LK,
			T.S	T.T.	т.П.	T.V.	MA.	MD.	MG.	MK,	MN,	MW,	MX,	ΜZ,	NO,	NΖ,	OM,	PH,
			PT.	PΨ.	RO.	RU.	SD.	SE.	SG,	SI,	SK,	SL,	ТJ,	ΤM,	TN,	TR,	тт,	14,
			ΠA.	UG.	US.	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,
			m.T	тM														
		RW·	CH.	. GM	KE.	LS,	MW.	ΜZ,	SD,	SL,	SZ,	$TZ_{.,}$	UG,	ZM,	ZW,	AT,	BE,	BG,
		1000	CH	CY.	CZ.	DE.	DK.	EE.	ES,	FI,	FR,	GB,	GK,	ΙĽ,	тт,	ьo,	MC,	MTI,
			PT.	SF.	SK.	TR.	BF.	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,
NE, SN, TD, TG PRIORITY APPLN. INFO.: DE 2001-10139410 A 20010817																		
AB The invention provides a method for the treatment or prevention of																		
headache, migraine, or cluster headache, which involves the common																		
	34	minis	trat	ion	of a	the	rape	utic	allv	eff	ecti	ve a	mt.	of 1	– [N2			
	_ r	3 5-4	ihro	$m \cap -N$	-[[4	-(3.	4-di	hvdr	0-2(	1H)-	oxoq	uına	ZOIl	ne-s	- AT)	- <u>+</u>		
	ni.	perid	inul	1-02	rhon	v11-	D-tv	rosv	11-L	-lvs	vll-	4-(4	-pyr	idir	yl)-	pipe	razi	ne
	$p_{\perp}$	ретта	тилт	.j-ca	TOOL	У Т .	DCy	-001	<b>-</b> , -	-1-	<u> </u>	•			-			

09/778290 Jones Page 9

[BIBN4096BS], or a physiol. acceptable salt thereof, and a therapeutically effective amt. of a second active antimigraine medication, in particular sumatriptan, zolmitriptan, or dihydroergotamine, or a physiol. acceptable salt thereof. Pharmaceutical compns. and prodn. thereof are also provided.

L141 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2003 ACS 2002:157574 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 136:210605

TITLE: Method of treating or preventing urinary incontinence

using prostanoid EP1 receptor antagonists

INVENTOR(S): Broten, Theodore P.; Nantel, Francois J.; Metters,

Kathleen M.; Turner, Mervyn

PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Merck Frosst Canada & Co.

SOURCE: PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                                         -----
                                        WO 2001-US25982 20010820
                           20020228
    WO 2002015902
                     A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, FT,
            RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
            UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                           20020304
                                         AU 2001-86557
    AU 2001086557
                     Α5
                                                           20010820
    US 2002137746
                                          US 2001-935614
                      A1
                           20020926
                                                           20010823
PRIORITY APPLN. INFO.:
                                       US 2000-227183P P 20000823
                                       WO 2001-US25982 W 20010820
```

MARPAT 136:210605 OTHER SOURCE(S):

This invention encompasses a method of treating or preventing urinary incontinence in a mammalian patient comprising administering to the patient a compd. of formula I (X = C or N; x and z are independently 0-2 such that y + z = 2; Ra = heteroaryl such as furyl, diazinyl, triazinyl, tetrazinyl, imidazolyl, isoxazolyl, isothiazolyl, etc.; R1, R2, R3, R4 and R5 are independently = H, halogen, C1-6alkyl, C1-6alkoxy, C1-6alkylthio, etc.; R6 = H, OH, C1-6alkyl, C1-6alkoxy, etc.) or a pharmaceutically acceptable salt, hydrate or ester thereof. The invention also encompasses certain pharmaceutical compns. and methods for treatment of prostaglandin mediated diseases comprising the use of compds. of formula I.

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L141 ANSWER 6 OF 31 MEDLINE

ACCESSION NUMBER: 2002164226 MEDLINE

DOCUMENT NUMBER: PubMed ID: 11896476 21893170

TITLE:

Intracavernous injections for erectile dysfunction in patients with cardiovascular diseases and failure or

contraindications for sildenafil citrate.

AUTHOR: Israilov S; Niv E; Livne P M; Shmueli J; Engelstein D;

Segenreich E; Baniel J

CORPORATE SOURCE: Institute of Urology, Rabin Medical Center, Beilinson Campus, Petah Tiqva 49110, Israel.

SOURCE: INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, (2002 Feb) 14

(1) 38-43.

Journal code: 9007383. ISSN: 0955-9930.

PUB. COUNTRY:

England: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200206

ENTRY DATE:

Entered STN: 20020317

Last Updated on STN: 20020620 Entered Medline: 20020619

#### ABSTRACT:

The aim of this study was to evaluate the effectiveness of a progressive program for the treatment of erectile dysfunction in patients with cardiovascular disease in whom sildenafil citrate (Viagra) was not an option. The study population included 106 patients selected from 267 with cardiovascular disease. The intracavernous injection program consisted of three protocols of increasingly complex combinations of vasoactive drugs, papaverine, phentolamine, prostaglandin El and atropine sulfate. Patients who failed the first protocol were switched to the second, and those who failed the second were switched to the third. A positive response was defined as an erection sufficient for vaginal penetration. A positive response was achieved on protocol I in 61 of the 106 patients (57.5%); protocol II in 32 of the remaining 45 patients (71.1%); and protocol III in seven of the remaining 13 patients (53.8%); the total success rate was 94.3%. These 100 patients were included in the 1-year follow-up, and 90 reported successful coitus at the end of that period: 79 patients (87.8%) with intracavernous injection and 11 (12.2%) without injection. The remaining 10 patients (10%) dropped out of the program, seven (7.0%) for health or marital reasons and three (3.0%) because of treatment failure. We conclude that a progressive program of intracavernous injections of vasoactive drugs may be a good alternative for the treatment of erectile dysfunction in patients with cardiovascular disease. CONTROLLED TERM: Check Tags: Human; Male

Adrenergic alpha-Antagonists: AD, administration & dosage

dosage

Adrenergic alpha-Antagonists: AE, adverse effects
Adrenergic alpha-Antagonists: TU, therapeutic use

Adult Aged

Aged, 80 and over

Alprostadil: AD, administration & dosage

Alprostadil: AE, adverse effects Alprostadil: TU, therapeutic use

Atropine: AD, administration & dosage

Atropine: AE, adverse effects Atropine: TU, therapeutic use

\*Cardiovascular Diseases: CO, complications

Coitus

#### Drug Combinations

Follow-Up Studies

\*Impotence: CO, complications

\*Impotence: DT, drug therapy

Injections Middle Age

Muscarinic Antagonists: AD, administration &

Muscarinic Antagonists: AE, adverse effects
Muscarinic Antagonists: TU, therapeutic use

Papaverine: AD, administration & dosage

Papaverine: AE, adverse effects Papaverine: TU, therapeutic use

Penis

Jones 09/778290 Page 11

Phentolamine: AD, administration & dosage

Phentolamine: AE, adverse effects Phentolamine: TU, therapeutic use Piperazines: CT, contraindications Piperazines: TU, therapeutic use ·

Retreatment

Treatment Failure

\*Vasodilator Agents: AD, administration & dosage

Vasodilator Agents: AE, adverse effects Vasodilator Agents: CT, contraindications Vasodilator Agents: TU, therapeutic use

CAS REGISTRY NO.: 139755-83-2 (sildenafil); 50-60-2 (Phentolamine); 51-55-8

(Atropine); 58-74-2 (Papaverine); 745-65-3 (Alprostadil) 0 (Adrenergic alpha-Antagonists); 0 (Drug Combinations); 0 (Muscarinic Antagonists); 0 (Piperazines); 0 (Vasodilator

Agents)

L141 ANSWER 7 OF 31 MEDLINE

CHEMICAL NAME:

ACCESSION NUMBER: 2002045730 MEDLINE

PubMed ID: 11755385 DOCUMENT NUMBER: 21629702

TITLE: Influence of pump compliance (peristaltic vs. infusion) on

urodynamic measurement during cystometry in conscious rats.

Velasco C; Guarneri L; Leonardi A; Testa R AUTHOR:

Pharmaceutical R & D Division-Recordati S.p.A., Mia M. CORPORATE SOURCE:

Civitali I-20148, Milano, Italy.

JOURNAL OF PHARMACOLOGICAL AND TOXICOLOGICAL METHODS, (2001 SOURCE:

May-Jun) 45 (3) 215-21.

Journal code: 9206091. ISSN: 1056-8719.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200202

ENTRY DATE: Entered STN: 20020124

> Last Updated on STN: 20020301 Entered Medline: 20020228

#### ABSTRACT:

Cystometry, employing natural or pump-induced bladder filling, is the most widely used method for studying bladder reflexes and micturition in conscious However, discrepancies in basal values of urodynamic parameters are often reported, especially for micturition pressure. The aim of this study was to establish whether the type of pump used (peristaltic or infusion) might yield different urodynamic parameters. Differences between natural filling (evaluated in water-loaded animals and considered "physiological micturition") and pump-evoked cystometrograms, as well as the compliance of these systems, and the effects of pharmacologically diverse drugs (prazosin, \*\*\*oxybutynin\*\*\* , and naproxen) acting on the bladder voiding were evaluated. Micturition pressure recorded from pump-evoked cystometrograms showed differences from natural micturition that were related to the total compliance of the system (pump + tube) and not only to the nature of the pump used. Drug-induced changes of micturition pressure during natural micturition resembled those recorded during bladder infusion with a peristaltic pump more than those with an infusion pump. Other basal values and drug-induced changes of bladder capacity were the same during natural and pump-evoked micturition. The present findings indicate that cystometrographic parameters obtained during pump-evoked micturition with a system at high compliance (peristaltic pump) are equivalent to those observed during physiological micturition. CONTROLLED TERM:

Check Tags: Animal; Comparative Study; Male

Bladder: DE, drug effects \*Bladder: PH, physiology

Consciousness

\*Infusion Pumps, Implantable Mandelic Acids: PD, pharmacology Naproxen: PD, pharmacology Prazosin: PD, pharmacology

Rats

Rats, Sprague-Dawley Reproducibility of Results

Urinary Catheterization: IS, instrumentation

Urinary Catheterization: MT, methods

Urination: DE, drug effects Urination: PH, physiology Urodynamics: DE, drug effects \*Urodynamics: PH, physiology

19216-56-9 (Prazosin); 22204-53-1 (Naproxen); CAS REGISTRY NO.:

5633-20-5 (oxybutynin)

0 (Mandelic Acids) CHEMICAL NAME:

L141 ANSWER 8 OF 31 MEDLINE

ACCESSION NUMBER: 1999180092 MEDLINE

DOCUMENT NUMBER: 99180092 PubMed ID: 10082055

The clinical efficacy of paremyd with and without TITLE:

dapiprazole in subjects with light and dark brown irides. AUTHOR: Anicho U M; Cooper J; Feldman J; Jaanus S D; Dignam K

Schnurmacher Institute for Vision Research, State CORPORATE SOURCE:

University of New York, State College of Optometry, New

York 10010-3677, USA.

OPTOMETRY AND VISION SCIENCE, (1999 Feb) 76 (2) 94-101. SOURCE:

Journal code: 8904931. ISSN: 1040-5488.

PUB. COUNTRY: United States

DOCUMENT TYPE: (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

(RANDOMIZED CONTROLLED TRIAL)

English LANGUAGE:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199905

Entered STN: 19990517 ENTRY DATE:

Last Updated on STN: 19990517 Entered Medline: 19990504

#### ABSTRACT:

BACKGROUND: Paremyd, a mydriatic formulation of 0.25% tropicamide and 1.0% hydroxyamphetamine hydrobromide provides adequate dilation for binocular indirect ophthalmoscopy in young Caucasians. We studied the clinical effectiveness of Paremyd in dilating heavily pigmented eyes by comparing its mydriatic efficacy in Blacks, Asians and Caucasians with light and dark brown irides. We also evaluated the efficacy of one drop of dapiprazole (Rev-Eyes) in reversing Paremyd-induced mydriasis in our subject sample. METHODS: In a masked, randomized, controlled experimental design, several visual functions which included pupillary dilation, near visual acuity, amplitude of accommodation, ocular hyperemia, and discomfort glare were measured at 30-min intervals, for a total of 300 min, in subjects dilated with a single drop of Paremyd in each eye. Ease of binocular indirect ophthalmoscopy was also assessed. A 3-way analysis of variance was used to assess changes in these measures as function of irides color/pigmentation (designated as light or dark brown iris color), presence or absence of dapiprazole, and test time interval. RESULTS: We found that subjects in our light brown irides group (mainly Caucasians) dilated faster than subjects in our dark brown irides group (mainly Blacks). Dapiprazole increased the speed of recovery from pupillary dilation for all subjects, but more so for those with light rather than dark brown irides. Similarly, subjects with light rather than dark brown irides recovered accommodative function more quickly. Although neither the use of dapiprazole nor the degree of iris color/pigmentation was significantly related to visual acuity or glare discomfort, there was a clear trend that these visual measures were affected to a greater degree in subjects with dark brown (primarily Blacks) rather than light brown irides. Overall, Paremyd provided adequate dilation for binocular indirect ophthalmoscopy in all subjects irrespective of

iris color/pigmentation. CONCLUSIONS: Our data indicate that a single drop of Paremyd provides adequate mydriasis, without significant side effects, for routine fundus examination of all subjects, independent of iris color/pigmentation. Furthermore, a single drop of dapiprazole was effective in speeding the return of pupillary dilation in most subjects, but had no significant effect on accommodation, near visual acuity or glare discomfort. Side effects such as stinging upon instillation, conjunctival hyperemia, and a few instances of ptosis, with possible additional cost to patients, appear to lessen its overall clinical benefit.

Check Tags: Comparative Study; Female; Human; Male; CONTROLLED TERM:

Support, Non-U.S. Gov't

Accommodation, Ocular: DE, drug effects

Adolescent

Adrenergic alpha-Antagonists: AD, administration & dosage

\*Adrenergic alpha-Antagonists: TU, therapeutic use Adult

#### Drug Therapy, Combination

\*Eye Color

Glare

Iris: DE, drug effects Iris: PH, physiology

Mydriatics: AD, administration & dosage

\*Mydriatics: TU, therapeutic use.

Ophthalmic Solutions: AD, administration & dosage

Ophthalmic Solutions: TU, therapeutic use

Ophthalmoscopy

\*Pupil: DE, drug effects

Triazoles: AD, administration & dosage

\*Triazoles: TU, therapeutic use

Tropicamide: AD, administration & dosage

\*Tropicamide: TU, therapeutic use Visual Acuity: DE, drug effects

p-Hydroxyamphetamine: AD, administration & dosage

\*p-Hydroxyamphetamine: TU, therapeutic use

CAS REGISTRY NO.: 103-86-6 (p-Hydroxyamphetamine); 1508-75-4 (Tropicamide);

72822-12-9 (dapiprazole)

0 (Adrenergic alpha-Antagonists); 0 (Mydriatics); 0

(Ophthalmic Solutions); 0 (Triazoles)

L141 ANSWER 9 OF 31 MEDLINE

1998321928 ACCESSION NUMBER: MEDLINE

DOCUMENT NUMBER: 98321928 PubMed ID: 9660491

TITLE: Synergistic receptor-activated calcium increases in single

nonpigmented epithelial cells.

AUTHOR: Cilluffo M C; Xia S L; Farahbakhsh N A; Fain G L CORPORATE SOURCE: Department of Physiological Science, University of

California, Los Angeles 90095-1527, USA.

CONTRACT NUMBER: EY06969 (NEI)

EY07568 (NEI)

CHEMICAL NAME:

INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE, (1998 Jul)

39 (8) 1429-35.

Journal code: 7703701. ISSN: 0146-0404.

PUB. COUNTRY:

United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) LANGUAGE:

English FILE SEGMENT:

Priority Journals

ENTRY MONTH: 199807

ENTRY DATE: Entered STN: 19980723

> Last Updated on STN: 19980723 Entered Medline: 19980714

ABSTRACT:

SOURCE:

PURPOSE: To determine whether single nonpigmented ciliary body cells contain

Jones

the signaling mechanism to produce synergistic drug-activated increases in Ca2+, or whether these responses are produced cooperatively by interaction among groups of cells. METHODS: Suspensions of single nonpigmented cells were plated onto soft collagen gels. Fura-2 fluorescence ratio imaging was used to examine receptor-evoked changes in intracellular Ca2+ concentration. RESULTS: Nonpigmented cells plated on soft collagen gels retained a rounded shape with membrane evaginations visible on their surface. Application of acetylcholine (10 microM) or epinephrine (1 microM) each produced small increases in intracellular Ca2+, but in combination they produced a Ca2+ increase of more than 10-fold. This synergistic Ca2+increase was a result of activation of muscarinic and alpha2-adrenergic receptors because a specific alpha2-adrenergic agonist could substitute for epinephrine in producing the response. The response could be blocked by a specific alpha2-antagonist and a muscarinic antagonist. An alphal-agonist could not substitute for epinephrine in producing a synergistic increase nor could the synergism be blocked by alphalor beta-antagonists. The Ca2+ increase was largely produced by release from internal stores, because the peak amplitude of the response was nearly the same in the external solution containing a low Ca2+ concentration; however, the influx of Ca2+ into the cell was responsible for maintenance of a steady component of the Ca2+ increase during maintained drug stimulation and for refilling the internal stores. CONCLUSIONS: Single nonpigmented cells can produce synergistic increases in Ca2+ on multiple receptor activation, indicating that the mechanism of synergism does not require the interaction of multiple cells. The Ca2+ increase is a result of release from internal stores and Ca2+ entry through an as yet undefined conductance or transport system in the plasma membrane.

CONTROLLED TERM:

Check Tags: Animal; Support, U.S. Gov't, P.H.S.

Acetylcholine: PD, pharmacology

Adrenergic alpha-Antagonists: PD, pharmacology

\*Calcium: ME, metabolism

Cells, Cultured

Ciliary Body: CY, cytology Ciliary Body: DE, drug effects \*Ciliary Body: ME, metabolism Collagen

#### Drug Combinations

Drug Synergism

Epinephrine: PD, pharmacology Epithelial Cells: CY, cytology Epithelial Cells: DE, drug effects \*Epithelial Cells: ME, metabolism Fluorescent Dyes: ME, metabolism Fura-2: ME, metabolism

Gels

#### Muscarinic Antagonists: PD, pharmacology

Rabbits

\*Receptors, Adrenergic, alpha-2: ME, metabolism

\*Receptors, Muscarinic: ME, metabolism

CAS REGISTRY NO.:

51-43-4 (Epinephrine); 51-84-3 (Acetylcholine); 7440-70-2

(Calcium); 9007-34-5 (Collagen); 96314-98-6 (Fura-2)

CHEMICAL NAME:

0 (Adrenergic alpha-Antagonists); 0 (Drug Combinations); 0 (Fluorescent Dyes); 0 (Gels); 0 (Muscarinic Antagonists); 0 (Receptors, Adrenergic, alpha-2); 0 (Receptors, Muscarinic)

MEDLINE L141 ANSWER 10 OF 31

ACCESSION NUMBER:

MEDLINE 1998114435

DOCUMENT NUMBER:

TITLE:

AUTHOR:

PubMed ID: 9453690 98114435 Prospective study comparing hyoscyamine, doxazosin, and

combination therapy for the treatment of urgency and

frequency in women.

Serels S; Stein M

CORPORATE SOURCE:

Department of Urology, Montefiore Medical Center and Albert Einstein College of Medicine, Bronx, New York, USA.

Jones 09/778290 Page 15

SOURCE:

NEUROUROLOGY AND URODYNAMICS, (1998) 17 (1) 31-6.

Journal code: 8303326. ISSN: 0733-2467.

PUB. COUNTRY: DOCUMENT TYPE: United States (CLINICAL TRIAL)

(CONTROLLED CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

FILE SEGMENT:

Priority Journals

199803

English

ENTRY MONTH:

ENTRY DATE:

Entered STN: 19980326

Last Updated on STN: 19980326

Entered Medline: 19980318

#### ABSTRACT:

Anticholinergics are commonly used for the treatment of frequency, urgency, and urge incontinence in women. Alpha-blockers have been shown to have a modulating effect on bladder smooth muscle but are not commonly used clinically for this indication. To evaluate the clinical effectiveness of each treatment as well as the combination therapy, we performed an open prospective study comparing these agents. Between September 1994 and October 1995, 34 women aged 28-91 (mean age, 62) received either 0.375 mg of sustained-release hyoscyamine twice a day or 2 mg doxazosin QHS prior to being crossed over to the other drug and/or the combination. Symptoms were assessed using an expanded American Urological Association (AUA) symptoms score, which included questions regarding incontinence at completion of each therapeutic phase. Evaluation included 6-channel urodynamics. All three therapies were noted to be effective in reducing AUA symptom scores. By urodynamic evaluation, a greater percentage of patients with increased voiding pressures or decreased compliance responded to doxazosin than hyoscyamine. Side effects were noted to be less prevalent with doxazosin than with the other therapies. There appears to be a significant role for alpha-blockers in the treatment of voiding symptoms in women. CONTROLLED TERM: Check Tags: Comparative Study; Female; Human

> Adrenergic alpha-Antagonists: AE, adverse effects \*Adrenergic alpha-Antagonists: TU, therapeutic use

Adult Aged

Aged, 80 and over

Atropine: AD, administration & dosage

\*Atropine: TU, therapeutic use

Bladder: DE, drug effects Bladder: PP, physiopathology

Cross-Over Studies

Delayed-Action Preparations

Doxazosin: AE, adverse effects \*Doxazosin: TU, therapeutic use

Drug Therapy, Combination

Middle Age

Muscarinic Antagonists: AD, administration &

dosage

\*Muscarinic Antagonists: TU, therapeutic use

Prospective Studies

Safety

Severity of Illness Index

Treatment Outcome

\*Urinary Incontinence: DT, drug therapy Urinary Incontinence: PP, physiopathology

Urodynamics: DE, drug effects

CAS REGISTRY NO.:

51-55-8 (Atropine); 74191-85-8 (Doxazosin)

CHEMICAL NAME:

0 (Adrenergic alpha-Antagonists); 0 (Delayed-Action

Preparations); 0 (Muscarinic Antagonists)

L141 ANSWER 11 OF 31 MEDLINE

ACCESSION NUMBER:

95299493 MEDITINE.

DOCUMENT NUMBER:

95299493 PubMed ID: 7780441 TITLE:

Autonomic dysreflexia in a rat model spinal cord injury and

the effect of pharmacologic agents.

AUTHOR:

SOURCE:

Rivas D A; Chancellor M B; Huang B; Salzman S K

CORPORATE SOURCE:

Department of Urology, Jefferson Medical College, Thomas

Jefferson University, Philadelphia, PA 19107, USA. NEUROUROLOGY AND URODYNAMICS, (1995) 14 (2) 141-52.

Journal code: 8303326. ISSN: 0733-2467.

United States PUB. COUNTRY:

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199507

ENTRY DATE:

Entered STN: 19950726

Last Updated on STN: 19950726 Entered Medline: 19950720

#### ABSTRACT:

The object of this study was to develop a spinal cord injury (SCI) rat model for autonomic dysreflexia (AD), assessing the effect of alpha-adrenergic and calcium channel blockade and to determine the relationship of detrusor-external sphincter dyssynergia (DESD) to the development of AD. A laminectomy was performed in male rats at the T4 or T10 level and a controlled 50 g cm blunt SCI was induced using an impounder. Four weeks after injury, changes in arterial blood pressure and heart rate were monitored while simultaneous cystometry (CMG) and pelvic floor electromography (EMG) were performed in vivo in sham (control) and spinal cord injured rats. The effects of (0.1 mg/kg), diltiazem (0.5 mg/kg), and oxybutynin \*\*\*terazosin\*\*\* chloride (0.1 mg/kg) on hemodynamic changes were assessed independently. T4 and T10 SCI rat displayed evidence of DESD (enhanced pelvic floor EMG activity at cystometric capacity) while control rats did not. Only T4 injured rats exhibited evidence of AD, with mean blood pressure elevations from 82.9 +/- 13.6 to 93.9 +/- 11.3 mm Hg (P < 0.01) and a mean heart rate decrease from 332.2 +/- 56.5 to 311.1 +/- 54.5 beats/min (P = 0.02) at cystometric capacity. The intravenous administration of terazosin or diltiazem abolished the AD response during CMG. The administration of oxybutynin exhibited the ability to increase bladder capacity and improve compliance in all 3 groups but did not blunt AD. The rat model of SCI effectively reproduced hemodynamic changes consistent with the AD complex in T4 level SCI but not T10 level SCI animals, despite incomplete lesions. Blockade with either an alpha-1 or a calcium channel antagonist effectively ablated the AD response to bladder distention. Anticholinergic agents had no effect on AD. DESD frequently accompanies autonomic dysreflexia, although the development of AD is not a prerequisite for DESD.

CONTROLLED TERM:

Check Tags: Animal; Comparative Study; Male; Support,

Non-U.S. Gov't

Adrenergic alpha-Antagonists: PD, pharmacology \*Autonomic Nervous System Diseases: CO, complications \*Autonomic Nervous System Diseases: PP, physiopathology

Bladder, Neurogenic: DT, drug therapy \*Bladder, Neurogenic: PP, physiopathology Calcium Channel Blockers: PD, pharmacology

Diltiazem: PD, pharmacology

Disease Models, Animal

Mandelic Acids

Parasympatholytics: PD, pharmacology Prazosin: AA, analogs & derivatives

Prazosin: PD, pharmacology

Rats

Rats, Sprague-Dawley

\*Spinal Cord Injuries: CO, complications Spinal Cord Injuries: DT, drug therapy \*Spinal Cord Injuries: PP, physiopathology

Urodynamics: PH, physiology

CAS REGISTRY NO.:

19216-56-9 (Prazosin); 42399-41-7 (Diltiazem);

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5633-20-5 (oxybutynin); 63590-64-7

(terazosine)

CHEMICAL NAME: 0 (Adrenergic alpha-Antagonists); 0 (Calcium Channel

Blockers); 0 (Mandelic Acids); 0 (Parasympatholytics)

L141 ANSWER 12 OF 31 MEDLINE

ACCESSION NUMBER: 94318991 MEDLINE

DOCUMENT NUMBER: 94318991 PubMed ID: 8043890

TITLE: Clinical reliability of multi-drug intracavernous

vasoactive pharmacotherapy for diabetic impotence.

AUTHOR: Montorsi F; Guazzoni G; Bergamaschi F; Zucconi M; Rigatti

P; Pizzini G; Miani A; Pozza G

CORPORATE SOURCE: Institute of Human Anatomy, Scientific Institute H. San

Raffaele, Milan, Italy.

SOURCE: ACTA DIABETOLOGICA, (1994 Apr) 31 (1) 1-5.

Journal code: 9200299. ISSN: 0940-5429. GERMANY: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199408

ENTRY DATE: Entered STN: 19940909

Last Updated on STN: 19940909 Entered Medline: 19940826

#### ABSTRACT:

PUB. COUNTRY:

DOCUMENT TYPE:

The aim of this study was to assess the effectiveness and safety of intracavernous injections of a four-drug vasoactive mixture in diabetic patients with organic impotence. A group of 60 diabetic patients with either pure neurogenic, pure vasculogenic or mixed neurovasculogenic impotence were treated with intracavernous injections of a combination of 12.1 mg/ml papaverine hydrochloride, 1.01 mg/ml phentolamine mesylate, 10.1 micrograms/ml prostaglandin E1 and 0.15 mg/ml atropine sulphate ('full-dose' mixture). mixture of the same drugs but at one-third concentrations ('reduced-dose' mixture) was also used. The mean (+/- SEM) volumes of the full-dose and reduced-dose mixtures used were 0.21 +/- 0.03 ml and 0.31 +/- 0.02 ml, respectively. All the patients were able to sustain a rigid erection at the end of the titration phase of the study. At a mean follow-up of 18 months, 48 patients (80%) were successfully using the mixture, 6 patients (10%) were using the mixture at a dose lower than the initial dose and 6 patients (10%) had dropped out from the injection therapy. No major complications were seen. association of multiple vasoactive drugs which use different mechanisms of action, thus exerting a pharmacological synergism, is an effective and safe procedure in intracavernous pharmacotherapy for diabetic patients with organic impotence.

CONTROLLED TERM: Check Tags: Human; Male

Adult Aged

Alprostadil: AD, administration & dosage

\*Alprostadil: TU, therapeutic use

Atropine: AD, administration & dosage

\*Atropine: TU, therapeutic use

\*Diabetes Mellitus: CO, complications

Drug Combinations

Follow-Up Studies

\*Impotence: DT, drug therapy

\*Impotence: ET, etiology

Impotence: PP, physiopathology

Injections Middle Age

Papaverine: AD, administration & dosage

\*Papaverine: TU, therapeutic use \*Penile Erection: DE, drug effects

Phentolamine: AD, administration & dosage

\*Phentolamine: TU, therapeutic use Self Administration Treatment Outcome

50-60-2 (Phentolamine); 51-55-8 (Atropine); 58-74-2 CAS REGISTRY NO .:

(Papaverine); 745-65-3 (Alprostadil)

0 (Drug Combinations) CHEMICAL NAME:

MEDLINE L141 ANSWER 13 OF 31

MEDLINE 94054844 ACCESSION NUMBER:

PubMed ID: 7694416 94054844 DOCUMENT NUMBER:

Effectiveness and safety of multidrug intracavernous TITLE:

therapy for vasculogenic impotence.

Montorsi F; Guazzoni G; Bergamaschi F; Dodesini A; Rigatti AUTHOR:

P; Pizzini G; Miani A

Institute of Human Anatomy, Scientific Institut H. San CORPORATE SOURCE:

Raffaele, Milan, Italy.

UROLOGY, (1993 Nov) 42 (5) 554-8. SOURCE:

Journal code: 0366151. ISSN: 0090-4295.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

English LANGUAGE:

Priority Journals FILE SEGMENT:

199312 ENTRY MONTH:

Entered STN: 19940117 ENTRY DATE:

Last Updated on STN: 19960129 Entered Medline: 19931207

ABSTRACT:

TITLE:

A four-drug vasoactive mixture (papaverine hydrochloride, prostaglandin El, phentolamine mesylate, atropine sulfate) was used for intracavernous injection therapy in 94 patients with vasculogenic impotence as diagnosed by color Doppler sonography and dynamic infusion cavernosometry-cavernosography. At a mean follow-up of twenty months, 66 patients (70%) are using the injections with the initial dose and are satisfied; 14 patients (15%) are using the injections with a smaller dose than initially given; and 14 patients (15%) dropped intracavernous treatment. Only 4 patients (4%) were unable to achieve a sustained rigid erection during the mixture titration phase. Selected cases of vasculogenic impotence can be safely and effectively treated by the association of drugs which rely on different mechanisms of action, producing a pharmacologic synergism which enhances the overall therapeutic effect.

Check Tags: Human; Male CONTROLLED TERM:

Alprostadil: AD, administration & dosage Atropine: AD, administration & dosage

Drug Synergism

\*Drug Therapy, Combination \*Impotence: DT, drug therapy Impotence: ET, etiology Injections, Intravenous

Papaverine: AD, administration & dosage

\*Penis: BS, blood supply

Phentolamine: AD, administration & dosage Phentolamine: AA, analogs & derivatives

50-60-2 (Phentolamine); 51-55-8 (Atropine); 58-74-2 CAS REGISTRY NO.: (Papaverine); 745-65-3 (Alprostadil)

MEDLINE L141 ANSWER 14 OF 31

MEDLINE 94167741 ACCESSION NUMBER:

PubMed ID: 7907192 94167741

DOCUMENT NUMBER:

Effects of intravesically administered anticholinergics, beta-adrenergic stimulant and alpha-adrenergic blocker on

bladder function in unanesthetized rats.

Ukimura O AUTHOR:

Department of Urology, Kyoto Prefectural University of CORPORATE SOURCE:

Medicine.

Jones 09/778290 Page 19

SOURCE: TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE, (1993 Aug) 170 (4)

251-60.

Journal code: 0417355. ISSN: 0040-8727.

PUB. COUNTRY: Japan

DOCUMENT TYPE: Jour

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199404

ENTRY DATE: Entered STN: 19940412

Last Updated on STN: 19950206 Entered Medline: 19940405

#### ABSTRACT:

Comparative analysis of the effects of intravesical instillation of drugs on urodynamic parameters (MVP, maximum intravesical pressure; RR, residual rate; BC, bladder capacity) was performed using an experimental model in unanesthetized rats. The drugs investigated in this study were atropine  $(7.2 \times 10^{-5})$  $10(-4)-7.2 \times 10(-2) M$ ), propantheline  $(7.2 \times 10(-3)-2.2 \times 10(-2) M)$ , \*\*\*oxybutynin\*\*\*  $(2.5 \times 10(-3)-2.5 \times 10(-2) M)$ , isoproterenol (5 x 10(-2)-10(-1) M) and prazosin  $(5 \times 10(-4))$  M). Of the anticholinergies, propantheline and oxybutynin showed a remarkable suppression of MVP accompanied with a consistent increase of RR and BC in a dose-dependent manner. Atropine showed, however, no suppression of MVP in spite of a significant change of RR and BC. Isoproterenol suppressed MVP with an increase of RR and BC in a dose-dependent manner at a relatively high concentration. Prazosin increased BC and RR at a relatively low concentration. This study revealed that these intravesical drugs have the ability to suppress spontaneous bladder contraction in unanesthetized rats and to change the micturition function in the urinary filling and storage phases. It is expected that intravesical instillation therapy for detrusor hyperreflexia will be improved in the future based upon the data obtained.

CONTROLLED TERM:

Check Tags: Animal; Male

Administration, Intravesical

\*Adrenergic alpha-Antagonists: AD, administration & dosage \*Adrenergic beta-Agonists: AD, administration & dosage

Atropine: AD, administration & dosage

\*Bladder: DE, drug effects

Isoproterenol: AD, administration & dosage
Mandelic Acids: AD, administration & dosage
\*Parasympatholytics: AD, administration & dosage

Prazosin: AD, administration & dosage
Propantheline: AD, administration & dosage

Rats

Rats, Wistar

CAS REGISTRY NO.: 19216-56-9 (Prazosin); 298-50-0 (Propantheline);

51-55-8 (Atropine); **5633-20-5** (oxybutynin);

7683-59-2 (Isoproterenol)

CHEMICAL NAME: 0 (Adrenergic alpha-Antagonists); 0 (Adrenergic

beta-Agonists); 0 (Mandelic Acids); 0 (Parasympatholytics)

L141 ANSWER 15 OF 31 MEDLINE

ACCESSION NUMBER: 92173433 MEDLINE

DOCUMENT NUMBER: 92173433 PubMed ID: 1724398

TITLE: Current concepts in the treatment of genitourinary tract

disorders in the older individual.

AUTHOR: Atala A; Amin M

CORPORATE SOURCE: Department of Surgery, University of Louisville School of

Medicine, Kentucky.

SOURCE: DRUGS AND AGING, (1991 May) 1 (3) 176-93. Ref: 87

Journal code: 9102074. ISSN: 1170-229X.

PUB. COUNTRY:

New Zealand

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW LITERATURE)

Jones

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199204

ENTRY DATE:

Entered STN: 19920424

Last Updated on STN: 19960129 Entered Medline: 19920408

ABSTRACT:

Genitourinary problems, including neurogenic dysfunction, impotence, prostatism, urinary tract infections, and prostate cancer, are common in the elderly, and most of the symptoms can be alleviated through pharmacological management. Patients with neurogenic dysfunction who present with symptoms such as incontinence and urinary retention can be appropriately managed with bladder and sphincter relaxants or stimulants. Anticholinergic agents in the form of oxybutynin, flavoxate, and propantheline are effective bladder relaxants, and phenoxybenzamine, prazosin, and terazosin are commonly used as sphincter relaxants. Bethanechol chloride is the agent most commonly used to stimulate bladder contraction, but physicians should be careful when prescribing it for elderly patients with cardiovascular problems. Organic and psychogenic causes of impotence usually overlap, and oral agents have limited use in the treatment process. The use of yohimbine has increased recently, but its value and rate of success remains questionable. Testosterone is being used widely to treat impotence, but it is only helpful to patients with hypogonadism and should be used with discretion in the elderly, who have a high incidence of prostate cancer. Vasoactive intracavernous pharmacotherapy, on the other hand, is a recently discovered alternative to testosterone with promising results. Although the treatment of choice for benign prostatic hypertrophy is surgery, there have been important pharmacological advances in treating this disorder. alpha-Adrenergic antagonists and anti-androgenic agents have been found to relieve the symptoms of prostatic enlargement. The use of chemotherapeutic and antibiotic agents to treat and suppress acute and chronic urinary tract infections is reviewed; these are second only to pulmonary infections as the most frequent cause of febrile episodes in patients over the age of 65. Lower urinary tract infections can be treated with almost any antibacterial agent. Upper urinary tract infections require full genitourinary evaluation and appropriate antibiotics should be used according to the urine culture sensitivity studies. With the advent of new hormonal agents, more choices are now available for the management of prostate cancer, which is the second most common malignancy in men. Diethylstilbestrol (stilboestrol), an oral estrogen, remains a commonly used agent to achieve castrate levels of androgens in advanced prostatic carcinoma. Agonist analogues, such as goserelin and leuprorelin, of gonadotrophin-releasing hormone (GnRH) [luteinising hormone-releasing hormone (LHRH); or gonadorelin] achieve the same results as diethylstilbestrol but without the cardiovascular side effects. Antiandrogens are also being used in combination with GnRH agonists to produce complete androgen blockage, with mixed results.

Check Tags: Human; Male CONTROLLED TERM:

Aged

Impotence: DT, drug therapy

Prostatic Hyperplasia: DT, drug therapy Prostatic Neoplasms: DT, drug therapy Urinary Tract Infections: DT, drug therapy \*Urogenital Diseases: DT, drug therapy

L141 ANSWER 16 OF 31

MEDLINE

ACCESSION NUMBER:

MEDLINE 88129771

DOCUMENT NUMBER: TITLE:

PubMed ID: 2963479 88129771

The effects of thymoxamine, phenylephrine and cyclopentolate on the accommodative process in man.

AUTHOR: CORPORATE SOURCE:

Zetterstrom C Department of Ophthalmology, Hospital of Uppsala, Sweden.

SOURCE:

ACTA OPHTHALMOLOGICA, (1987 Dec) 65 (6) 699-704.

Journal code: 0370347. ISSN: 0001-639X.

Denmark PUB. COUNTRY:

Jones 09/778290 Page 21

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198803

ENTRY DATE:

Entered STN: 19900308

Last Updated on STN: 19900308 Entered Medline: 19880314

ABSTRACT:

Accommodation of the eye was measured in a cross-over study in 11 healthy volunteers (20-35 years). In 5 subjects the near point was determined before and after topical instillation of 5 microliter of 0.1% and 0.5%, and 5 x 5 microliter 0.5% thymoxamine, 5 microliter of 2% and 10%, and 5 x 5 microliter 10% phenylephrine and 5 microliter of 0.04%, 0.2%, and 1% cyclopentolate. All concentrations of thymoxamine increased the accommodative amplitude by about 1.5 dioptres. Accommodation decreased by about 0.5 dioptre after instillation of 5 x 5 microliter 10% phenylephrine. The cycloplegic effects of 0.2% and 1% cyclopentolate were similar. Accommodation was also determined after application of 5 microliter 1% cyclopentolate followed by either 5 x 5 microliter 0.5% thymoxamine or 10% phenylephrine. Addition of thymoxamine did not alter the cycloplegic response of cyclopentolate alone. Addition of phenylephrine caused a more prolonged but similar maximum response compared to that of cyclopentolate alone. In the 6 other test subjects, the accommodation was compared before and after topical instillation of 5 microliter of 0.2% and 1% and 40 microliter (one standard eye-drop) of 1% cyclopentolate and followed during 6 h. There was no difference between the maximum value of 5 microliter and 40 microliter 1% cyclopentolate. We conclude from these data that alpha-stimulation by phenylephrine decreases and alpha-inhibition by thymoxamine increases the accommodative amplitude in man. (ABSTRACT TRUNCATED AT 250 WORDS)

CONTROLLED TERM:

Check Tags: Human

\*Accommodation, Ocular: DE, drug effects

Adult

Ciliary Body: DE, drug effects
 \*Cyclopentolate: PD, pharmacology

Drug Combinations

\*Moxisylyte: PD, pharmacology
\*Phenylacetates: PD, pharmacology
\*Phenylephrine: PD, pharmacology

CAS REGISTRY NO.:

512-15-2 (Cyclopentolate); 54-32-0 (Moxisylyte); 59-42-7

(Phenylephrine)

CHEMICAL NAME:

0 (Drug Combinations); 0 (Phenylacetates)

L141 ANSWER 17 OF 31 MEDLINE

ACCESSION NUMBER:

85306123 MEDLINE

DOCUMENT NUMBER:

85306123 PubMed ID: 3929733

TITLE:

[Chemical blockade of the cardiac autonomic nervous system. Effects on the coronary arterial vasomotor activity]

Effects on the coronary arterial vasomotor activity]. Blocage chimique du systeme nerveux autonome cardiaque.

Effets sur la vasomotricite arterielle coronaire. Bory M; Dayan-Benattar N; Sainsous J; Djiane P;

Serradimigni A

AUTHOR: SOURCE:

ARCHIVES DES MALADIES DU COEUR ET DES VAISSEAUX, (1985 Jul)

78 (7) 1053-60.

Journal code: 0406011. ISSN: 0003-9683.

PUB. COUNTRY:

France

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

French

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198510

ENTRY DATE:

Entered STN: 19900320

Last Updated on STN: 19900320 Entered Medline: 19851021

ABSTRACT:

The results of cardiac plexectomy in spastic angina are controversial. This study was undertaken to evaluate the effects of blocking the cardiac autonomic nervous system (CANS) in this syndrome in 61 patients presenting with chest pain and angiographically normal coronary arteries. All patients underwent a methyl-ergometrine provocation test with a sequential protocol. They were then divided into two groups: Group 1 (13 patients): positive response to Group 2 (48 patients): negative response to ergometrine. sub-groups were identified: 2: 1: 9 patients with coronary spasm demonstrated by another method: 2: 2: 6 patients with myocardial infarction: 2: 3: 33 patients with chest pain alone. The results of these tests were compared with those obtained after blocking the CANS by intravenous injection over 3 minutes of an alpha and beta-blocker (labetalol 2 mg/kg) and a parasympathetic blocker (Atropine. 0.04 mg/kg). The CANS blockade was confirmed by two facts: the basal heart rate of  $66.38 \pm -9.91$  rose to ots intrinsic rate of  $89.76 \pm -10.5$ (p less than 0.01) and remained at that rate after ergometrine and trinitrate administration and myocardial ischaemia; changes in blood pressure were greater after CANS blockade: + 30.62 +/- 16.13 mmHg instead of + 8.62 +/- 0.33 mmHg after ergometrine (p less than 0.01) and -43.16 + /- 16.32 mmHg instead of -25.16 +/- 3.64 mmHg after trinitrate (p less than 0.01).(ABSTRACT TRUNCATED AT 250 WORDS)

CONTROLLED TERM:

Check Tags: Female; Human; Male

Adult Aged

\*Atropine: TU, therapeutic use

\*Autonomic Nerve Block

Blood Pressure: DE, drug effects \*Coronary Vasospasm: DT, drug therapy

Drug Therapy, Combination

Electrocardiography English Abstract

\*Ethanolamines: TU, therapeutic use

\*Heart: IR, innervation

Heart: RI, radionuclide imaging Heart Rate: DE, drug effects \*Labetalol: TU, therapeutic use

Middle Age

36894-69-6 (Labetalol); 51-55-8 (Atropine)

CAS REGISTRY NO .: 0 (Ethanolamines) CHEMICAL NAME:

MEDLINE L141 ANSWER 18 OF 31

MEDLINE ACCESSION NUMBER: 84002050

DOCUMENT NUMBER:

PubMed ID: 6137279 84002050 Treatment of vasospastic angina.

TITLE: AUTHOR: SOURCE:

MacAlpin R CARDIOVASCULAR CLINICS, (1983) 14 (1) 129-72. Ref: 255

Journal code: 0213744. ISSN: 0069-0384.

PUB. COUNTRY:

United States Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

General Review; (REVIEW) English

LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH:

198311

ENTRY DATE:

Entered STN: 19900319

Last Updated on STN: 19950206

Entered Medline: 19831123

CONTROLLED TERM:

Check Tags: Case Report; Female; Human; Male; Support,

Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

Adrenergic alpha-Antagonists: TU, therapeutic use Adrenergic beta-Antagonists: TU, therapeutic use

Adult

Anemia: CO, complications

Angina Pectoris, Variant: CO, complications \*Angina Pectoris, Variant: DT, drug therapy

Searched by Barb O'Bryen, STIC 308-4291

Atropine: TU, therapeutic use Diltiazem: TU, therapeutic use Drug Therapy, Combination

Epoprostenol: TU, therapeutic use

Exercise Therapy

Hypertension: CO, complications Hyperthyroidism: CO, complications

Isosorbide Dinitrate: TU, therapeutic use

Middle Age

Nifedipine: TU, therapeutic use Nitroglycerin: TU, therapeutic use Nitroprusside: TU, therapeutic use Nylidrin: TU, therapeutic use Verapamil: TU, therapeutic use

CAS REGISTRY NO.: 15078-28-1 (Nitroprusside); 21829-25-4 (Nifedipine);

35121-78-9 (Epoprostenol); 42399-41-7 (Diltiazem); 447-41-6

(Nylidrin); 51-55-8 (Atropine); 52-53-9 (Verapamil); 55-63-0 (Nitroglycerin); 87-33-2 (Isosorbide Dinitrate)

CHEMICAL NAME: 0 (Adrenergic alpha-Antagonists); 0 (Adrenergic

beta-Antagonists)

L141 ANSWER 19 OF 31 MEDLINE

ACCESSION NUMBER: 83051350 MEDLINE

DOCUMENT NUMBER: 83051350 PubMed ID: 6814784

TITLE: Antiarrhythmic drug combinations in the treatment of

ventricular tachycardia.

AUTHOR: Ross D L; Sze D Y; Keefe D L; Swerdlow C D; Echt D S;

Griffin J C; Winkle R A; Mason J W CIRCULATION, (1982 Dec) 66 (6) 1205-10.

SOURCE: CIRCULATION, (1982 Dec) 66 (6) 1205-10.

Journal code: 0147763. ISSN: 0009-7322.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 198301

ENTRY DATE: Entered STN: 19900317

Last Updated on STN: 19900317 Entered Medline: 19830107

#### ABSTRACT:

Combinations of antiarrhythmic drugs are frequently used to treat refractory ventricular tachycardia (VT), but few scientific data support this practice. We examined the efficacy and electrophysiology of 110 antiarrhythmic drug combination trials at electrophysiologic study in 74 patients with recurrent ventricular tachycardia. Lidocaine was combined with quinidine in 33 trials, procainamide in 22 and encainide in 20. Propranolol was combined with quinidine in 17 trials, procainamide in 12 and encainide in six. individual drugs tested (except propranolol, which was usually not tested individually) had failed at electrophysiologic study or clinically in the presence of usually accepted plasma concentrations. Lidocaine in combination with quinidine was effective in 3% of the trials, with procanamide in 5% and with encainide in none of the trials. Propranolol in combination with quinidine was effective in 18% of the trials, with procainamide in 17% and with encainide in none of the trials. The electrophysiologic effects of the tested drug combinations were dominated by the individual effects of the type 1 antiarrhythmic agents. We conclude that the tested antiarrhythmic drug combinations are infrequently effective in preventing VT induction at electrophysiologic study when each agent has failed individually. The addition of lidocaine or propranolol to quinidine, procainamide or encainide does not produce significant synergistic or new effects on the electrophysiologic variables analyzed.

CONTROLLED TERM: Check Tags: Female; Human; Male; Support, Non-U.S. Gov't

Aged

Anilides: BL, blood

Anilides: TU, therapeutic use

Anti-Arrhythmia Agents: AE, adverse effects

Anti-Arrhythmia Agents: BL, blood

\*Anti-Arrhythmia Agents: TU, therapeutic use

Blood Pressure: DE, drug effects

\*Drug Therapy, Combination

Electrophysiology

Encainide

Lidocaine: AA, analogs & derivatives

Lidocaine: BL, blood

Lidocaine: TU, therapeutic use

Middle Age

Tocainide

Procainamide: BL, blood

Procainamide: TU, therapeutic use Propranolol: AE, adverse effects Propranolol: TU, therapeutic use

Quinidine: BL, blood

Quinidine: TU, therapeutic use \*Tachycardia: DT, drug therapy Tachycardia: PP, physiopathology

CAS REGISTRY NO.:

137-58-6 (Lidocaine); 41708-72-9 (Tocainide); 51-06-9

(Procainamide); 525-66-6 (Propranolol); 56-54-2

(Quinidine); 66778-36-7 (Encainide)

CHEMICAL NAME:

0 (Anilides); 0 (Anti-Arrhythmia Agents)

L141 ANSWER 20 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

2003036185 EMBASE

TITLE:

As we enter the new year, several new drugs will be

launched globally.

AUTHOR: Wyllie M.G.

CORPORATE SOURCE: Dr. M.G. Wyllie, Urodoc, Herne Bay, Kent, United Kingdom.

mike@urodoc.co.uk

SOURCE: BJU International

BJU International, (2003) 91/1 (115-116). ISSN: 1464-4096 CODEN: BJINFO

COUNTRY:

United Kingdom

DOCUMENT TYPE:

Journal; (Short Survey)

FILE SEGMENT: ,

028 Urology and Nephrology

030 Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE:

English

CONTROLLED TERM:

Medical Descriptors:

\*prostate hypertrophy: DT, drug therapy erectile dysfunction: DT, drug therapy urge incontinence: DT, drug therapy

food and drug administration

urine retention health care economic aspect long term care treatment outcome drug efficacy

cardiovascular effect

side effect: SI, side effect

patient compliance

human

short survey
priority journal
Drug Descriptors:

\*new drug

sildenafil: AE, adverse drug reaction

Page 25

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sildenafil: PD, pharmacology
                     phosphodiesterase inhibitor
                     vardenafil
                     tadalafil
                     darifenacin: DT, drug therapy
                     solifenacin: DT, drug therapy
                     steroid 5alpha reductase: CB, drug combination
                     steroid 5alpha reductase: DT, drug therapy
                       alpha adrenergic receptor blocking agent: CB, drug
                     combination
                     alpha adrenergic receptor blocking agent: DT, drug therapy
                     steroid 5alpha reductase inhibitor: DT, drug therapy
                     dutasteride: AE, adverse drug reaction
                     dutasteride: DT, drug therapy
                     dutasteride: PD, pharmacology
                     finasteride: AE, adverse drug reaction
                     finasteride: DT, drug therapy
                     androgen: EC, endogenous compound
                     fiduxosin: DT, drug therapy
                     adrenergic receptor blocking agent: CB, drug combination
                     adrenergic receptor blocking agent: DT, drug therapy
                     parvosin: DT, drug therapy
                     tamsulosin: DT, drug therapy
                     oxybutynin: DT, drug therapy
                     tolterodine: DT, drug therapy
                       muscarinic receptor blocking agent: CB, drug
                     combination
                     muscarinic receptor blocking agent: DT, drug therapy
                     dopamine receptor stimulating agent: AE, adverse drug
                     reaction
                     dopamine receptor stimulating agent: DT, drug therapy
                     dopamine receptor stimulating agent: LI, sublingual drug
                     administration
                     apomorphine: AE, adverse drug reaction
                     apomorphine: DT, drug therapy
                     apomorphine: LI, sublingual drug administration
                     phentolamine: DT, drug therapy
                     unclassified drug
                     rxs 70004
                     uk 380003
                     rbx 2258
                     (sildenafil) 139755-83-2; (vardenafil) 224785-90-4,
CAS REGISTRY NO.:
                     224785-91-5, 224789-15-5; (tadalafil) 171596-29-5;
                     (darifenacin) 133099-04-4, 133099-07-7; (solifenacin)
                     180272-14-4, 180272-16-6, 180468-39-7; (dutasteride)
                     164656-23-9; (finasteride) 98319-26-7; (fiduxosin) 208992-74-9; (tamsulosin) 106133-20-4, 106138-88-9, 106463-17-6, 80223-99-0, 94666-07-6; (oxybutynin)
                     1508-65-2, 5633-20-5; (tolterodine) 124937-51-5;
                     (apomorphine) 314-19-2, 58-00-4; (phentolamine) 50-60-2,
                     73-05-2
CHEMICAL NAME:
                     (1) Rxs 70004; (2) Uk 380003; (3) Rbx 2258
COMPANY NAME:
                     (1) Hoffmann La Roche; (2) Pfizer; (3) Schwarz; Lilly;
                     Yamanouchi; Abbott; Bayer; Ortho
L141 ANSWER 21 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
ACCESSION NUMBER:
                     2003124545 EMBASE
TITLE:
                     Efficacy and safety of tolterodine in subjects with
                     symptoms of overactive bladder: An open label,
                     noncomparative, prospective, multicentric study.
AUTHOR:
                     Kumar A.
CORPORATE SOURCE:
                     Prof. A. Kumar, Dept. of Urol. and Renal Transplant.,
```

sildenafil: DT, drug therapy

SGPGIMS, Rai Bareilly Road, Lucknow 226 014, India SOURCE:

Indian Journal of Urology, (2002) 19/1 (73-78).

Refs: 14

ISSN: 0970-1591 CODEN: IJURE2

COUNTRY: India

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 028 Urology and Nephrology

> 030 Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ABSTRACT:

Objective: To evaluate the clinical efficacy and safety of tolterodine 2 mg twice daily in Indian subjects with symptoms of overactive bladder including frequency, urgency with or without urge incontinence. Methods: This multicentric open-label, noncomparative, prospective study was conducted at 7 centers across India. Eligible patients were assigned to treatment with Tab. Tolterodine 2 mg twice daily for 8 weeks. Subjects were seen at visit 1 (day 3 to 10), visit 2 (day 1) and after 8 weeks of treatment. Micturition charts were completed prior to visit 2 and visit 3. Efficacy variables included change from baseline to 8 weeks of treatment in the mean number of micturitions, incontinence episodes/24 hours, mean volume voided per micturition and subjects' perception of treatment benefit. Efficacy was evaluated from patients' micturition diaries. Patients were also assessed for adverse events during the treatment. Results: A total of 127 subjects with symptoms of overactive bladder were enrolled. 8 weeks' treatment with tolterodine resulted in improvement in assessment of all symptoms of overactive bladder. Significant decreases from baseline in both the frequency of micturition (mean .+-. SD of-2.5 .+-. 5.0 per 24 hours, p=0.0001) and the number of incontinence episodes per 24 hours (-1.5.+-.3.8, p=0.0051) and a significant increase in mean volume voided per micturition (+26.+-.55 ml, p=0.0001) were obtained. Treatment was well tolerated and most subjects (71.4%) did not experience any adverse events during the study. The most common adverse event was dry mouth (10.3%). 5 subjects were withdrawn due to adverse events and all the subjects recovered uneventfully. Conclusions: Treatment with Tolterodine 2 mg twice daily was

CONTROLLED TERM: Medical Descriptors:

\*overactive bladder: DT, drug therapy

effective and safe in Indian subjects with the symptoms of overactive bladder,

major clinical study multicenter study clinical trial

as assessed by both objective and subjective criteria.

adult aged

female male

drug efficacy drug safety

open study prospective study drug dose regimen

Indian

urge incontinence: DT, drug therapy

consultation micturition urine.volume drug tolerability

side effect: SI, side effect xerostomia: SI, side effect

disease duration

Page 27

urine incontinence: DT, drug therapy autonomic dysfunction: SI, side effect central nervous system disease: SI, side effect peripheral neuropathy: SI, side effect urine retention: SI, side effect drug fever: SI, side effect drug withdrawal anxiety paresthesia: SI, side effect hypokinesia: SI, side effect enzyme blood level hematuria: SI, side effect urinary tract infection: SI, side effect leukocyte count leukopenia: SI, side effect gastrointestinal symptom: SI, side effect hearing disorder: SI, side effect vestibular disorder: SI, side effect liver disease: SI, side effect biliary tract disease: SI, side effect metabolic disorder: SI, side effect nutritional disorder: SI, side effect musculoskeletal disease: SI, side effect mental disease: SI, side effect respiratory tract disease: SI, side effect skin disease: SI, side effect India patient attitude medical record urinary frequency perception liver dysfunction: SI, side effect article Drug Descriptors: \*tolterodine: DT, drug therapy \*tolterodine: CT, clinical trial \*tolterodine: PO, oral drug administration \*tolterodine: PD, pharmacology \*tolterodine: AE, adverse drug reaction \*tolterodine: CB, drug combination oxybutynin: DT, drug therapy oxybutynin: AE, adverse drug reaction amlodipine: DT, drug therapy amlodipine: CB, drug combination atenolol: DT, drug therapy atenolol: CB, drug combination nifedipine: DT, drug therapy nifedipine: CB, drug combination doxazosin: DT, drug therapy doxazosin: CB, drug combination paracetamol: DT, drug therapy paracetamol: CB, drug combination liver enzyme: EC, endogenous compound CAS REGISTRY NO.: (tolterodine) 124937-51-5; (oxybutynin) 1508-65-2, 5633-20-5; (amlodipine) 88150-42-9; (atenolol) 29122-68-7; (nifedipine) 21829-25-4; (doxazosin) 74191-85-8; (paracetamol) 103-90-2 L141 ANSWER 22 OF 31. EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. ACCESSION NUMBER: 2001083847 EMBASE TITLE: A review of the treatment options for clozapine-induced

hypersalivation.

Cree A.; Mir S.; Fahy T.

AUTHOR:

Jones

CORPORATE SOURCE: A. Cree, Maudsley Hospital, Denmark Hill, London SE5 8AF,

United Kingdom

Psychiatric Bulletin, (2001) 25/3 (114-116). SOURCE:

Refs: 17

ISSN: 0955-6036 CODEN: PBULE5

COUNTRY:

United Kingdom

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

Adverse Reactions Titles 038 Otorhinolaryngology 011

032 Psychiatry

Drug Literature Index 037

Pharmacology 030

Clinical Biochemistry 029

English LANGUAGE: English SUMMARY LANGUAGE:

Aims and method: To develop and introduce an evidence-based drug treatment protocol for clozapine-induced hypersalivation, a review of published literature relating to clozapine-induced hypersalivation and its treatment was undertaken in March 2000. The databases searched were Medline, EMBASE and PsychLit, from 1966 to the present. Results: This paper reviews the evidence of the benefit of using antimuscarinic agents, adrenergic antagonists and adrenergic agonists. There is a lack of good-quality controlled-trials, with most papers reporting a series of uncontrolled cases dependent on subjective measures of improvement reported by the patients. However, the published literature suggests a benefit for all of the drug categories reviewed. The most effective treatment may be a combination of terazosin and benzhexol. Clinical implications: Clozapine-induced hypersalivation is not only an embarrassing problem, but can be difficult to treat. An evidence-based prescribing protocol will encourage the use of those drugs found to be the most effective in treating this problem. It will also offer alternatives if a certain treatment is ineffective or intolerable.

CONTROLLED TERM:

Medical Descriptors: \*hypersalivation: SI, side effect \*hypersalivation: DT, drug therapy

\*hypersalivation: TH, therapy

human

clinical trial drug efficacy

evidence based medicine

drug tolerability drug mechanism receptor blocking dose response

receptor affinity

depression: SI, side effect xerostomia: SI, side effect

visual impairment: SI, side effect

diarrhea: SI, side effect

drug penetration

hypotension: SI, side effect confusion: SI, side effect schizophrenia: DT, drug therapy

drug response drug absorption

bradycardia: SI, side effect

contact dermatitis: SI, side effect

psychosis: SI, side effect

swallowing diet therapy

review

Drug Descriptors:

```
*clozapine: AE, adverse drug reaction
*clozapine: PD, pharmacology
*clozapine: CT, clinical trial
*clozapine: DO, drug dose
*muscarinic receptor blocking agent: DT, drug therapy
*muscarinic receptor blocking agent: CT, clinical trial
*muscarinic receptor blocking agent: PD, pharmacology
*muscarinic receptor blocking agent: DO, drug dose
*muscarinic receptor blocking agent: AE, adverse drug
reaction
*muscarinic receptor blocking agent: PK, pharmacokinetics
*muscarinic receptor blocking agent: CM, drug comparison
*muscarinic receptor blocking agent: LI, sublingual drug
administration
*muscarinic receptor blocking agent: NA, intranasal drug
administration
  *muscarinic receptor blocking agent: CB, drug
combination
*adrenergic receptor blocking agent: DT, drug therapy
*adrenergic receptor blocking agent: CT, clinical trial
*adrenergic receptor blocking agent: PD, pharmacology
*adrenergic receptor blocking agent: CB, drug combination
*adrenergic receptor blocking agent: AE, adverse drug
reaction
*adrenergic receptor blocking agent: CM, drug comparison
*adrenergic receptor blocking agent: DO, drug dose
*adrenergic receptor stimulating agent: DT, drug therapy
*adrenergic receptor stimulating agent: CT, clinical trial
*adrenergic receptor stimulating agent: PD, pharmacology
*adrenergic receptor stimulating agent: DO, drug dose
*adrenergic receptor stimulating agent: AE, adverse drug
reaction
terazosin: DT, drug therapy
  terazosin: CB, drug combination
terazosin: PD, pharmacology
terazosin: AE, adverse drug reaction
terazosin: CM, drug comparison
terazosin: CT, clinical trial
terazosin: DO, drug dose
trihexyphenidyl: DT, drug therapy
trihexyphenidyl: CB, drug combination
trihexyphenidyl: PD, pharmacology
trihexyphenidyl: PK, pharmacokinetics
trihexyphenidyl: AE, adverse drug reaction
trihexyphenidyl: DO, drug dose
trihexyphenidyl: CM, drug comparison
muscarinic receptor: EC, endogenous compound
adrenergic receptor: EC, endogenous compound
amitriptyline: DT, drug therapy
amitriptyline: PD, pharmacology
amitriptyline: DO, drug dose
pirenzepine: DT, drug therapy
pirenzepine: PD, pharmacology
pirenzepine: AE, adverse drug reaction
pirenzepine: DO, drug dose
benzatropine: DT, drug therapy
benzatropine: PD, pharmacology
benzatropine: CM, drug comparison
benzatropine: AE, adverse drug reaction
benzatropine: DO, drug dose
benzatropine: CT, clinical trial
benzatropine: CB, drug combination
atropine: DT, drug therapy
```

```
atropine: PD, pharmacology
                   atropine: AE, adverse drug reaction
                   atropine: LI, sublingual drug administration
                   atropine: DO, drug dose
                   scopolamine bromide: DT, drug therapy
                   scopolamine bromide: PD, pharmacology
                    ipratropium bromide: DT, drug therapy
                    ipratropium bromide: PD, pharmacology
                    ipratropium bromide: NA, intranasal drug administration
                    ipratropium bromide: PK, pharmacokinetics
                    ipratropium bromide: AE, adverse drug reaction
                    ipratropium bromide: CT, clinical trial
                    clonidine: DT, drug therapy
                    clonidine: PD, pharmacology
                    clonidine: DO, drug dose
                    clonidine: AE, adverse drug reaction
                    lofexidine: DT, drug therapy
                    lofexidine: PD, pharmacology
                    lofexidine: DO, drug dose
                    lofexidine: AE, adverse drug reaction
                    (clozapine) 5786-21-0; (terazosin) 63074-08-8, 63590-64-7;
                    (trihexyphenidyl) 144-11-6, 52-49-3; (amitriptyline)
                    50-48-6, 549-18-8; (pirenzepine) 28797-61-7, 29868-97-1;
                    (benzatropine) 86-13-5; (atropine) 51-55-8, 55-48-1;
                    (scopolamine bromide) 114-49-8; (ipratropium bromide)
                    22254-24-6; (clonidine) 4205-90-7, 4205-91-8, 57066-25-8;
                    (lofexidine) 31036-80-3
                      EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
L141 ANSWER 23 OF 31
                    2000081881 EMBASE
                    Pharmacologic management of urinary incontinence.
                    Lackner T.E.
                    Dr. T.E. Lackner, College of Pharmacy, Weaver-Densford
                    Hall, University of Minnesota, 308 Harvard St SE,
                    Minneapolis, MN 55455, United States. lackn001@tc.umn.edu
                    Annals of Long-Term Care, (2000) 8/2 (29-37).
                    Refs: 30
                    ISSN: 1524-7929 CODEN: ALTCFF
                    United States
                     Journal; General Review
                             Gerontology and Geriatrics
                     020
                             Urology and Nephrology
                     028
                             Health Policy, Economics and Management
                    036
                             Drug Literature Index
                     037
                             Adverse Reactions Titles
                     038
                     English
                     English
SUMMARY LANGUAGE:
Urinary incontinence, overactive bladder without incontinence, and their
complications are widespread. They constitute an important cause of medical,
psychosocial, and hygienic problems and an economic burden in the long-term
care population. Treatment of urinary incontinence/overactive bladder can
 significantly relieve symptoms, with complete continence restored in some
 patients. As an adjunct to nonpharmacologic therapies, new drugs are associated
 with a lower risk of adverse drug reactions, improved patient tolerance, and
 greater convenience than traditional agents and may enable a greater number of
 patients to realize improved bladder control.
```

### CONTROLLED TERM:

CAS REGISTRY NO .:

ACCESSION NUMBER:

CORPORATE SOURCE:

TITLE:

AUTHOR:

SOURCE:

COUNTRY:

LANGUAGE:

ABSTRACT:

DOCUMENT TYPE:

FILE SEGMENT:

Medical Descriptors:

\*urine incontinence: DM, disease management

\*urine incontinence: DT, drug therapy \*urine incontinence: ET, etiology \*urine incontinence: TH, therapy

Jones 09/778290 Page 31

```
*stress incontinence: DM, disease management
*stress incontinence: DT, drug therapy
*stress incontinence: ET, etiology
*stress incontinence: TH, therapy
incontinence: DM, disease management
incontinence: DT, drug therapy
incontinence: ET, etiology
incontinence: TH, therapy
geriatric patient
detrusor muscle
  bladder contraction
drug metabolism
drug effect
drug induced disease: SI, side effect
drug cost
human
aged
review
Drug Descriptors:
*cholinergic receptor blocking agent: AE, adverse drug
reaction
*cholinergic receptor blocking agent: DO, drug dose
*cholinergic receptor blocking agent: IT, drug interaction
*cholinergic receptor blocking agent: DT, drug therapy
*cholinergic receptor blocking agent: PR, pharmaceutics
*cholinergic receptor blocking agent: PK, pharmacokinetics
*cholinergic receptor blocking agent: PO, oral drug
administration
*tolterodine: AE, adverse drug reaction
*tolterodine: DO, drug dose
  *tolterodine: IT, drug interaction
*tolterodine: DT, drug therapy
*tolterodine: PE, pharmacoeconomics
*tolterodine: PK, pharmacokinetics
*tolterodine: PO, oral drug administration
*cholinergic receptor stimulating agent: AE, adverse drug
reaction
*cholinergic receptor stimulating agent: DO, drug dose
*cholinergic receptor stimulating agent: IT, drug
interaction
*cholinergic receptor stimulating agent: DT, drug therapy
*cholinergic receptor stimulating agent: PE,
pharmacoeconomics
*cholinergic receptor stimulating agent: PO, oral drug
administration
*cholinergic receptor stimulating agent: SC, subcutaneous
drug administration
*bethanechol: AE, adverse drug reaction
*bethanechol: DO, drug dose
*bethanechol: IT, drug interaction
*bethanechol: DT, drug therapy
*bethanechol: PE, pharmacoeconomics
*bethanechol: PO, oral drug administration
*bethanechol: SC, subcutaneous drug administration
*alpha adrenergic receptor stimulating agent: AE, adverse
drug reaction
*alpha adrenergic receptor stimulating agent: DO, drug dose
*alpha adrenergic receptor stimulating agent: IT, drug
interaction
*alpha adrenergic receptor stimulating agent: DT, drug
therapy
*alpha adrenergic receptor stimulating agent: PE,
pharmacoeconomics
```

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*alpha adrenergic receptor stimulating agent: PO, oral drug
administration
*alpha 1 adrenergic receptor blocking agent: AE, adverse
drug reaction
*alpha 1 adrenergic receptor blocking agent: DO, drug dose
*alpha 1 adrenergic receptor blocking agent: IT, drug
interaction
*alpha 1 adrenergic receptor blocking agent: DT, drug
therapy
*alpha 1 adrenergic receptor blocking agent: PE,
pharmacoeconomics
*alpha 1 adrenergic receptor blocking agent: PO, oral drug
administration
*tricyclic antidepressant agent: AE, adverse drug reaction
*tricyclic antidepressant agent: DO, drug dose
*tricyclic antidepressant agent: IT, drug interaction
*tricyclic antidepressant agent: DT, drug therapy
*tricyclic antidepressant agent: PE, pharmacoeconomics
*tricyclic antidepressant agent: PO, oral drug
administration
estrogen: AE, adverse drug reaction
estrogen: DT, drug therapy
estrogen: PE, pharmacoeconomics
estrogen: VA, intravaginal drug administration
estrogen: DL, intradermal drug administration
antiestrogen: AE, adverse drug reaction
 antiestrogen: DT, drug therapy
 antiestrogen: PE, pharmacoeconomics
antiestrogen: PO, oral drug administration
 finasteride: AE, adverse drug reaction
 finasteride: DT, drug therapy
 finasteride: PE, pharmacoeconomics
 finasteride: PO, oral drug administration
 doxazosin: AE, adverse drug reaction
 doxazosin: DO, drug dose
   doxazosin: IT, drug interaction
 doxazosin: DT, drug therapy
 doxazosin: PE, pharmacoeconomics
 doxazosin: PO, oral drug administration
 tamsulosin: AE, adverse drug reaction
 tamsulosin: DO, drug dose
 tamsulosin: IT, drug interaction
 tamsulosin: DT, drug therapy
 tamsulosin: PE, pharmacoeconomics
 tamsulosin: PO, oral drug administration
 terazosin: AE, adverse drug reaction
 terazosin: DO, drug dose
   terazosin: IT, drug interaction
 terazosin: DT, drug therapy
 terazosin: PE, pharmacoeconomics
 terazosin: PO, oral drug administration
 oxybutynin: AE, adverse drug reaction
  oxybutynin: DO, drug dose
    oxybutynin: IT, drug interaction
  oxybutynin: DT, drug therapy
  oxybutynin: PE, pharmacoeconomics
  oxybutynin: PO, oral drug administration
  propantheline bromide: AE, adverse drug reaction
  propantheline bromide: DO, drug dose
  propantheline bromide: IT, drug interaction
  propantheline bromide: DT, drug therapy
  propantheline bromide: PE, pharmacoeconomics
  propantheline bromide: PO, oral drug administration
```

Page 33

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phenylpropanolamine: AE, adverse drug reaction
                    phenylpropanolamine: DO, drug dose
                    phenylpropanolamine: IT, drug interaction
                    phenylpropanolamine: DT, drug therapy
                    phenylpropanolamine: PE, pharmacoeconomics
                    phenylpropanolamine: PO, oral drug administration
                    pseudoephedrine: AE, adverse drug reaction
                    pseudoephedrine: DO, drug dose
                    pseudoephedrine: IT, drug interaction
                    pseudoephedrine: DT, drug therapy
                    pseudoephedrine: PE, pharmacoeconomics
                    pseudoephedrine: PO, oral drug administration
                    Sabal extract: AE, adverse drug reaction
                    Sabal extract: DT, drug therapy
                    Sabal extract: PE, pharmacoeconomics
                    desipramine: AE, adverse drug reaction
                    desipramine: DO, drug dose
                    desipramine: IT, drug interaction
                    desipramine: DT, drug therapy
                    desipramine: PE, pharmacoeconomics
                    desipramine: PO, oral drug administration
                    doxepin: AE, adverse drug reaction
                    doxepin: DO, drug dose
                    doxepin: IT, drug interaction
                    doxepin: DT, drug therapy
                    doxepin: PE, pharmacoeconomics
                    doxepin: PO, oral drug administration
                    imipramine: AE, adverse drug reaction
                    imipramine: DO, drug dose
                    imipramine: IT, drug interaction
                    imipramine: DT, drug therapy
                    imipramine: PE, pharmacoeconomics
                    imipramine: PO, oral drug administration
                    nortriptyline: AE, adverse drug reaction
                    nortriptyline: DO, drug dose
                    nortriptyline: IT, drug interaction
                    nortriptyline: DT, drug therapy
                    nortriptyline: PE, pharmacoeconomics
                    nortriptyline: PO, oral drug administration
                    antihypertensive agent: IT, drug interaction
                    theophylline: IT, drug interaction
                    steroid: IT, drug interaction
                    monoamine oxidase inhibitor: IT, drug interaction
                    antibiotic agent: IT, drug interaction
                    cannabinoid: IT, drug interaction
                    antifungal agent: IT, drug interaction
                    unindexed drug
                     (tolterodine) 124937-51-5; (bethanechol) 590-63-6,
                    674-38-4, 91609-06-2; (finasteride) 98319-26-7; (doxazosin)
                    74191-85-8; (tamsulosin) 80223-99-0; (terazosin)
                    63074-08-8, 63590-64-7; (oxybutynin) 1508-65-2, 5633-20-5; (propantheline bromide) 298-50-0, 50-34-0;
                     (phenylpropanolamine) 14838-15-4, 154-41-6, 4345-16-8,
                    48115-38-4; (pseudoephedrine) 345-78-8, 7460-12-0, 90-82-4;
                     (desipramine) 50-47-5, 58-28-6; (doxepin) 1229-29-4,
                    1668-19-5; (imipramine) 113-52-0, 50-49-7; (nortriptyline)
                    72-69-5, 894-71-3; (theophylline) 58-55-9, 5967-84-0,
                    8055-07-0, 8061-56-1, 99007-19-9
L141 ANSWER 24 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
                    1999208638
                                EMBASE
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subjects with cervical spinal cord injury.

Effects of a .beta.2-agonist on airway hyperreactivity in

CAS REGISTRY NO.:

ACCESSION NUMBER:

TITLE:

DeLuca R.V.; Grimm D.R.; Lesser M.; Bauman W.A.; Almenoff AUTHOR:

Dr. M. Lesser, Spinal Cord Damage Research, 130 West CORPORATE SOURCE:

Kingsbridge Road, Bronx, NY 10468, United States

Chest, (1999) 115/6 (1533-1538). SOURCE:

Refs: 41

ISSN: 0012-3692 CODEN: CHETBF

COUNTRY:

United States Journal; Article

DOCUMENT TYPE:

Neurology and Neurosurgery 008

FILE SEGMENT:

Chest Diseases, Thoracic Surgery and Tuberculosis 015

Orthopedic Surgery 033 Drug Literature Index 037

LANGUAGE: SUMMARY LANGUAGE: English English

ABSTRACT:

Study Objective: Aerosolized ipratropium bromide or orally administered baclofen or oxybutynin chloride (Ditropan) block methacholine-associated airway hyperreactivity in subjects with chronic cervical spinal cord injury (SCI), whereas these agents do not inhibit airway hyperreactivity associated with the inhalation of histamine. The present study was performed to determine whether pretreatment with a .beta.2-agonist attenuates airway hyperresponsiveness in these subjects. Participants: Subjects with chronic cervical SCI previously demonstrating airway hyperreactivity were challenged with methacholine (n = 9)or histamine (n = 16) alone and, on a separate day, 25 min following inhalation of nebulized metaproterenol sulfate. Results: Inhalation of the .beta.2-agonist was associated with an increase in provocative concentration causing a 20% decrease in FEV1 (PC20) values (geometric mean) from 1.01 .+-. 2.76 to 20.54 .+-. 6.24~mg/mL for methacholine and from 2.29~.+-. 2.26~to~19.82~.+-. 5.93~.+mg/mL for histamine. No correlation was found between specific PC20 values for individual subjects and percentage improvement in FEV1 (liter) following inhalation of metaproterenol sulfate and between PC20 values and baseline FEV1 percent. Conclusion: These data, combined with findings that patients with chronic high cervical SCI experience increased breathlessness following exposure to exogenous agents, suggest that long-term prophylactic .beta.2-agonist therapy may reduce respiratory symptoms associated with airway hyperreactivity in these patients.

CONTROLLED TERM:

Medical Descriptors:

\*bronchus hyperreactivity: DT, drug therapy \*bronchus hyperreactivity: PC, prevention

\*cervical spinal cord injury: DT, drug therapy

disease association

drug effect aerosol

provocation test

forced expiratory volume

dyspnea prophylaxis spirometry smoking

quadriplegia: DT, drug therapy

bronchospasm

human male

clinical article clinical trial

aged adult

oral drug administration

inhalational drug administration

article

priority journal

Drug Descriptors: \*beta 2 adrenergic receptor stimulating agent: DT, drug therapy \*ipratropium bromide: CT, clinical trial \*ipratropium bromide: CM, drug comparison \*ipratropium bromide: DT, drug therapy \*oxybutynin: CT, clinical trial \*oxybutynin: CB, drug combination \*oxybutynin: CM, drug comparison \*oxybutynin: DT, drug therapy methacholine histamine orciprenaline diazepam: CB, drug combination diazepam: DT, drug therapy amitriptyline: CB, drug combination amitriptyline: DT, drug therapy docusate sodium: CB, drug combination docusate sodium: DT, drug therapy baclofen: CB, drug combination baclofen: DT, drug therapy prazosin: CB, drug combination prazosin: DT, drug therapy captopril: CB, drug combination captopril: DT, drug therapy butalbital: CB, drug combination butalbital: DT, drug therapy phenytoin: CB, drug combination phenytoin: DT, drug therapy methenamine mandelate: CB, drug combination methenamine mandelate: DT, drug therapy cimetidine: CB, drug combination (ipratropium bromide) 22254-24-6; (oxybutynin) 1508-65-2, 5633-20-5; (methacholine) 55-92-5; (histamine) 51-45-6, 56-92-8, 93443-21-1; (orciprenaline) 586-06-1, 5874-97-5; (diazepam) 439-14-5; (amitriptyline) 50-48-6, 549-18-8; (docusate sodium) 577-11-7; (baclofen) 1134-47-0; (prazosin) 19216-56-9, 19237-84-4; (captopril) 62571-86-2; (butalbital) 51005-25-5, 77-26-9; (phenytoin) 57-41-0, 630-93-3; (methenamine mandelate) 587-23-5; (cimetidine) 51481-61-9, 70059-30-2 L141 ANSWER 25 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. 96373790 EMBASE 1996373790 Clozapine-induced urinary incontinence: Incidence and treatment with ephedrine. Fuller M.A.; Borovicka M.C.; Jaskiw G.E.; Simon M.R.; Kwon K.; Konicki P.E. Pharmacy Service 119(B), 10000 Brecksville Road, Brecksville, OH 44141, United States Journal of Clinical Psychiatry, (1996) 57/11 (514-518). ISSN: 0160-6689 CODEN: JCLPDE United States Journal; Article 028 Urology and Nephrology 032 Psychiatry 037 Drug Literature Index 038 Adverse Reactions Titles English English

CAS REGISTRY NO.:

ACCESSION NUMBER: DOCUMENT NUMBER:

CORPORATE SOURCE:

DOCUMENT TYPE:

SUMMARY LANGUAGE:

FILE SEGMENT:

TITLE:

AUTHOR:

SOURCE:

COUNTRY:

LANGUAGE:

ABSTRACT:

Background: Treatment with the atypical antipsychotic drug clozapine appears to

be associated with an increased incidence of urinary incontinence (UI). We posited that the potent anti-.alpha.-adrenergic effects of clozapine were involved, and hence that an .alpha.-adrenergic agonist would reduce UI. We tested this hypothesis by using ephedrine, an approved .alpha.-adrenergic agonist. Method: Fifty-seven inpatients with schizophrenia or schizoaffective disorder (DSM-IV) who met the Kane criteria for being treatment refractory were treated with clozapine (75-900 mg/day). Patients who developed UI were then openly treated with ephedrine in increasing doses until UI was attenuated or a dose of 150 mg/day was attained. Results: Seventeen patients developed UI as evidenced by either urine-stained sheets/clothing or direct patient reports. In 2 cases, the UI was sufficiently severe that adult diapers had to be used. Comparison of patients who developed UI and those who did not showed that UI was associated with female gender and with concomitant treatment with typical antipsychotic drugs. One patient was treated with a behavioral program, but the remaining 16 patients were treated with ephedrine. Ephedrine treatment was very effective, with 15/16 patients showing improvement within 24 hours after reaching maximum ephedrine dosage. Twelve of 16 (including the 2 most severe) eventually had a complete remission of their UI. In the remaining 4 patients, 3had a reduction in the frequency of UI and 1 showed no response. These benefits have been maintained over the course of 12 months of subsequent treatment for several patients. There were no side effects associated with the use of ephedrine nor were there any changes in neuropsychiatric status. Conclusion: Ephedrine appears to be a safe and effective treatment for clozapine-associated UI. By inference, it is likely that clozapine may cause UI via its anti-.alpha.-adrenergic properties.

CONTROLLED TERM:

Medical Descriptors: \*urine incontinence: DT, drug therapy \*urine incontinence: SI, side effect adult aged article' clinical trial drug efficacy female human major clinical study male oral drug administration priority journal risk factor schizoidism: DT, drug therapy schizoidism: DR, drug resistance schizophrenia: DT, drug therapy schizophrenia: DR, drug resistance Drug Descriptors: \*alpha adrenergic receptor stimulating agent: CT, clinical \*alpha adrenergic receptor stimulating agent: DT, drug therapy \*clozapine: DT, drug therapy \*clozapine: CB, drug combination \*clozapine: AE, adverse drug reaction \*ephedrine: DT, drug therapy \*ephedrine: CT, clinical trial \*neuroleptic agent: DT, drug therapy \*neuroleptic agent: AE, adverse drug reaction amantadine: CB, drug combination amantadine: DT, drug therapy benzatropine: DT, drug therapy benzatropine: CB, drug combination benzatropine mesilate benzodiazepine derivative: DT, drug therapy

Searched by Barb O'Bryen, STIC 308-4291

benzodiazepine derivative: CB, drug combination beta adrenergic receptor blocking agent: CB, drug

combination

beta adrenergic receptor blocking agent: DT, drug therapy cholinergic receptor blocking agent: CB, drug combination cholinergic receptor blocking agent: DT, drug therapy

doxazosin: CB, drug combination doxazosin: DT, drug therapy haloperidol: DT, drug therapy oxybutynin: DT, drug therapy oxybutynin: CB, drug combination

propranolol: CB, drug combination propranolol: DT, drug therapy

trihexyphenidyl ·

(clozapine) 5786-21-0; (ephedrine) 299-42-3, 50-98-6; CAS REGISTRY NO.:

(amantadine) 665-66-7, 768-94-5; (benzatropine) 86-13-5; (benzatropine mesilate) 132-17-2; (doxazosin) 74191-85-8; (haloperidol) 52-86-8; (oxybutynin) 1508-65-2, 5633-20-5; (propranolol) 13013-17-7, 318-98-9, 3506-09-0, 4199-09-1,

525-66-6; (trihexyphenidyl) 144-11-6, 52-49-3

Clozaril; Cardura; Ditropan; Symmetrel; Cogentin; Haldol; CHEMICAL NAME:

Inderal; Artane

L141 ANSWER 26 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 97019409 EMBASE

DOCUMENT NUMBER:

1997019409

McN-A-343 increases renal sympathetic nerve activity and TITLE:

blood pressure by a muscarinic and a non-muscarinic

mechanism in the rat.

AUTHOR: Martin J.R.

CORPORATE SOURCE: J.R. Martin, Department of Pharmacology, Kirksville

Coll.Osteopathic Medicine, Kirksville, MO 63501, United

Journal of Autonomic Pharmacology, (1996) 16/5 (281-292). SOURCE:

Refs: 36

ISSN: 0144-1795 CODEN: JAPHDU

COUNTRY:

United Kingdom DOCUMENT TYPE: Journal; Article Physiology FILE SEGMENT: 002

018 Cardiovascular Diseases and Cardiovascular Surgery

> 030 Pharmacology

037 Drug Literature Index

English LANGUAGE: SUMMARY LANGUAGE: English

ABSTRACT:

1. Intravenous administration of the putative M1 muscarinic agonist McN-A-343 to conscious rats evokes an increase in mean arterial pressure (MAP) which can be blocked by muscarinic receptor antagonists. The present study was undertaken to evaluate the increase in MAP and renal sympathetic nerve activity (RSNA) evoked by intravenous administration of McN-A-343 to urethane-anaesthetized rats. 2. McN-A-343 (0.1-0.3 mg kg-1) evoked a concurrent increase in MAP and RSNA which could be inhibited by the nonselective muscarinic receptor antagonist methylatropine or the selective M1 muscarinic receptor antagonist telenzepine. Administration of higher doses of McN-A-343 (0.3-1.2 mg kg-1) in the presence of muscarinic receptor blockade evoked brief bursts in RSNA accompanied by increases in MAP. 3. The increases in MAP, but not the increases in RSNA, evoked by all doses of McN-A-343 could be attenuated by the selective .alpha.1-adrenoceptor antagonist prazosin. Adding the selective .alpha.2-adrenoceptor antagonist yohimbine to prazosin did not further inhibit the presser response to the low doses of McN-A-343. 4. The irreversible .alpha.-adrenoceptor and NPY receptor antagonist benextramine also attenuated the presser response evoked by the low doses of McN-A-343 but not the increases in RSNA. However, when combined with muscarinic receptor blockade, benextramine

completely inhibited the brief bursts in RSNA, and thus also the increases in MAP, evoked by the high doses of McN-A-343. 5. The pressor response remaining after the administration of high doses of McN-A-343 to rats pretreated with prazosin and methylatropine was inhibited by treatment with .alpha.,.beta.-methylene ATP. 6. These results show that McN-A-343 evokes increases in RSNA by muscarinic and non-muscarinic mechanisms. Furthermore, the subsequent increase in MAP is primarily dependent upon activation of vascular .alpha.1-adrenoceptors, but may also involve activation of P(2x) receptors.

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CONTROLLED TERM:
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Medical Descriptors: \*blood pressure \*kidney nerve animal experiment article controlled study intravenous drug administration nonhuman rat Drug Descriptors: \*[4 [(3 chlorophenyl)carbamoyloxy] 2 butynyl]trimethylammonium: PD, pharmacology \*[4 [(3 chlorophenyl)carbamoyloxy] 2 butynyl]trimethylammonium: DO, drug dose benextramine: CB, drug combination benextramine: PD, pharmacology benextramine: CM, drug comparison methylatropine: PD, pharmacology

methylatropine: CB, drug combination methylatropine: CM, drug comparison muscarinic agent: PD, pharmacology muscarinic agent: CM, drug comparison

# muscarinic agent: CB, drug combination muscarinic receptor blocking agent: CB, drug

combination
muscarinic receptor blocking agent: CM, drug comparison
muscarinic receptor blocking agent: PD, pharmacology
neuropeptide y receptor antagonist: PD, pharmacology
neuropeptide y receptor antagonist: CM, drug comparison
neuropeptide y receptor antagonist: CB, drug combination

prazosin: CB, drug combination prazosin: CM, drug comparison prazosin: PD, pharmacology telenzepine: CM, drug comparison telenzepine: PD, pharmacology telenzepine: CB, drug combination yohimbine: CB, drug combination yohimbine: CM, drug comparison yohimbine: PD, pharmacology

CAS REGISTRY NO.:

([4 [(3 chlorophenyl)carbamoyloxy] 2 butynyl]trimethylammonium) 55-45-8; (benextramine) 68535-69-3; (methylatropine) 31610-87-4; (prazosin) 19216-56-9, 19237-84-4; (telenzepine) 80880-90-6; (yohimbine) 146-48-5, 65-19-0

CHEMICAL NAME:

(1) Mcn a 343 (1) Rbi; Sigma

COMPANY NAME:

L141 ANSWER 27 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. ACCESSION NUMBER: 96081858 EMBASE

ACCESSION NUMBER: DOCUMENT NUMBER:

1996081858

TITLE:

Effect of receptor blockers on brain natriuretic peptide and C-type natriuretic peptide caused anxiolytic state in rats.

Jones 09/778290 Page 39

AUTHOR: Biro E.; Toth G.; Telegdy G.

CORPORATE SOURCE: Department Pathophysiology, Albert Szent-Gyorgyi Medical

Univ., P.O. Box 531,6701 Szeged, Hungary

SOURCE: Neuropeptides, (1996) 30/1 (59-65).

ISSN: 0143-4179 CODEN: NRPPDD

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article FILE SEGMENT: 003 Endocrinology

032 Psychiatry 030 Pharmacology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ABSTRACT:

Effect of different doses of centrally administered brain natriuretic peptide (BNP) and C-type natriuretic peptide (CNP) were examined in rats with respect to anxiolytic properties in an elevated plus-maze model. BNP in doses of 100, 200 and 400 ng, and CNP in doses of 100 and 200 ng abolished the normal preference for the closed arms of the maze, and increased the percentage time spent in the open arms; this is consistent with an 'anxiolytic-like' effect. Doses of 50 and 1000 ng BNP, and of 25, 50, 400 and 1000 ng CNP produced no . behavioural effects in the elevated plus-maze model. Pretreatment with an .alpha.-adrenoreceptor antagonist or a muscarinergic cholinergic blocker, antagonized the effect of 200 ng BNP in the elevated plus-maze test. The 'anxiolytic-like' effects of a BNP were not modulated by a dopaminergic blocker, an .alpha.-adrenoreceptor antagonist, a GABA receptor antagonist, a 5-HT receptor antagonist or an opiate antagonist. The 'anxiolytic-like' effect of CNP was prevented by a dopamine receptor antagonist, or an .alpha.- or .beta.-adrenoreceptor blocker but not by a muscarinergic cholinergic blocker, a GABA receptor, a 5-HT receptor antagonist or an opiate receptor antagonist. These results suggest that multiple neurotransmitter system activation might be responsible for the BNP and CNP-induced 'anxiolytic-like' activity.

CONTROLLED TERM: Medical Descriptors:

\*anxiety

animal experiment

article behavior

controlled study

intracerebroventricular drug administration ,

intraperitoneal drug administration

male maze test nonhuman

priority journal

rat

drug therapy
Drug Descriptors:

\*alpha adrenergic receptor blocking agent: CB, drug

\*alpha adrenergic receptor blocking agent: PD, pharmacology

\*alpha adrenergic receptor blocking agent: IT, drug

interaction

\*anxiolytic agent: DV, drug development

\*brain natriuretic peptide: PD, pharmacology

\*brain natriuretic peptide: DO, drug dose

\*brain natriuretic peptide: CB, drug combination

\*brain natriuretic peptide: CM, drug comparison

\*brain natriuretic peptide: IT, drug interaction

\*dopamine receptor blocking agent: CM, drug comparison

\*dopamine receptor blocking agent: CB, drug combination

\*dopamine receptor blocking agent: PD, pharmacology

4 aminobutyric acid receptor blocking agent: CM, drug

CAS REGISTRY NO.:

COMPANY NAME:

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

AUTHOR:

```
comparison
                   4 aminobutyric acid receptor blocking agent: CB, drug
                   combination
                   4 aminobutyric acid receptor blocking agent: PD,
                   pharmacology
                   atropine: CM, drug comparison
                   atropine: CB, drug combination
                   atropine: IT, drug interaction
                   atropine: PD, pharmacology
                   bicuculline: CB, drug combination
                   bicuculline: PD, pharmacology
                   bicuculline: CM, drug comparison
                   haloperidol: CB, drug combination
                   haloperidol: PD, pharmacology
                   haloperidol: CM, drug comparison
                   methysergide: PD, pharmacology
                   methysergide: CM, drug comparison
                   methysergide: CB, drug combination
                   muscarinic receptor blocking agent: PD, pharmacology
                   muscarinic receptor blocking agent: IT, drug interaction
                     muscarinic receptor blocking agent: CB, drug
                    combination
                    muscarinic receptor blocking agent: CM, drug comparison
                    naloxone: CB, drug combination
                    naloxone: CM, drug comparison
                    naloxone: PD, pharmacology
                    natriuretic peptide: PD, pharmacology
                    natriuretic peptide: CB, drug combination
                    natriuretic peptide: CM, drug comparison
                    natriuretic peptide: IT, drug interaction
                    natriuretic peptide: DO, drug dose
                    opiate antagonist: PD, pharmacology
                    opiate antagonist: CM, drug comparison
                    opiate antagonist: CB, drug combination
                    phenoxybenzamine: CM, drug comparison phenoxybenzamine: CB, drug combination
                    phenoxybenzamine: PD, pharmacology
                    phenoxybenzamine: IT, drug interaction
                    propranolol: CB, drug combination
                    propranolol: IT, drug interaction
                    propranolol: PD, pharmacology
                    serotonin antagonist: CM, drug comparison
                    serotonin antagonist: CB, drug combination
                    serotonin antagonist: PD, pharmacology
                    unclassified drug
                    (brain natriuretic peptide) 114471-18-0; (atropine)
                    51-55-8, 55-48-1; (bicuculline) 485-49-4; (haloperidol)
                    52-86-8; (methysergide) 16509-15-2, 361-37-5, 62288-72-6;
                    (naloxone) 357-08-4, 465-65-6; (phenoxybenzamine) 59-96-1,
                    63-92-3; (propranolol) 13013-17-7, 318-98-9, 3506-09-0,
                    4199-09-1, 525-66-6
                    Bachem (United States); Smith kline and french (United
                    Kingdom); Sigma (United States); Sandoz (Germany); Endo
                    laboratories (United States); Egys (Hungary)
                      EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
L141 ANSWER 28 OF 31
                              EMBASE
                     92346906
                     1992346906
                    Clinical pharmacology in neurourology.
                    Appell R.A.
                     Department of Urology, Louisiana State Univ. Medical
CORPORATE SOURCE:
                     Center, 1542 Tulane Avenue, New Orleans, LA 70112-2822,
                     United States
```

Jones 09/778290 Page 41

SOURCE:

Problems in Urology, (1992) 6/4 I (622-642).

ISSN: 0889-471X CODEN: PRUREX

COUNTRY:

United States

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

028 Urology and Nephrology

030 Pharmacology

037 Drug Literature Index

LANGUAGE: SUMMARY LANGUAGE: English English

ABSTRACT:

Pharmacotherapy may be used to treat individuals with various voiding dysfunctions, especially those of a neurogenic etiology. Based upon the neurophysiology of the lower urinary tract, it would be expected that certain pharmacologic agents facilitate bladder emptying while others facilitate bladder storage. The clinical application of currently available pharmacologic agents in the management of neurogenic vesicourethral dysfunction is reviewed with regard to efficacy and safety of specific medications.

CONTROLLED TERM:

Medical Descriptors:

\*urinary dysfunction: DT, drug therapy

binding site

bladder contraction bladder pressure drug contraindication

drug mechanism drug potentiation

human

intravenous drug administration

micturition

oral drug administration

review

Drug Descriptors:

\*alpha adrenergic receptor blocking agent: PD, pharmacology \*alpha adrenergic receptor blocking agent: DT, drug therapy

\*muscarinic receptor blocking agent: PD, pharmacology

\*muscarinic receptor blocking agent: DT, drug therapy

\*muscle relaxant agent: PD, pharmacology

\*muscle relaxant agent: DT, drug therapy
\*spasmolytic agent: PD, pharmacology

\*spasmolytic agent: DT, drug therapy

\*tricyclic antidepressant agent: DT, drug therapy \*tricyclic antidepressant agent: PD, pharmacology alpha adrenergic receptor stimulating agent: DT, drug

therapy

baclofen: DT, drug therapy baclofen: PD, pharmacology

bactoren: PD, pharmacology benzodiazepine derivative: DT, drug therapy benzodiazepine derivative: PD, pharmacology

beta adrenergic receptor blocking agent

bethanechol: CB, drug combination bethanechol: DT, drug therapy bethanechol: PD, pharmacology

chlorpromazine: DT, drug therapy dantrolene: PD, pharmacology dantrolene: DT, drug therapy dicycloverine: DT, drug therapy dicycloverine: PD, pharmacology

estrogen: DT, drug therapy estrogen: PD, pharmacology flavoxate: DT, drug therapy flavoxate: PD, pharmacology haloperidol: DT, drug therapy imipramine: PD, pharmacology

Searched by Barb O'Bryen, STIC 308-4291

```
imipramine: DT, drug therapy
imipramine: CB, drug combination
metoclopramide: PD, pharmacology
metoclopramide: CB, drug combination
metoclopramide: DT, drug therapy
  oxybutynin: CB, drug combination
```

oxybutynin: DT, drug therapy oxybutynin: PD, pharmacology

propantheline bromide: CB, drug combination prostaglandin inhibitor: DT, drug therapy prostaglandin inhibitor: PD, pharmacology

terazosin: CB, drug combination terbutaline: DT, drug therapy terbutaline: PD, pharmacology

CAS REGISTRY NO.:

(muscle relaxant agent) 9008-44-0; (baclofen) 1134-47-0;

(bethanechol) 590-63-6, 674-38-4, 91609-06-2;

(chlorpromazine) 50-53-3, 69-09-0; (dantrolene) 14663-23-1, 7261-97-4; (dicycloverine) 50815-09-3, 67-92-5, 77-19-0; (flavoxate) 15301-69-6, 3717-88-2; (haloperidol) 52-86-8;

(imipramine) 113-52-0, 50-49-7; (metoclopramide)

12707-59-4, 2576-84-3, 364-62-5, 7232-21-5; (oxybutynin) 1508-65-2, 5633-20-5; (propantheline bromide) 298-50-0, 50-34-0; (terazosin) 63074-08-8, 63590-64-7; (terbutaline)

23031-25-6

CHEMICAL NAME:

(1) Thorazine

COMPANY NAME:

(1) Smithkline beckman corporation (United States)

L141 ANSWER 29 OF 31

ACCESSION NUMBER:

WPIDS (C) 2003 THOMSON DERWENT 2003-371870 [35] WPIDS

DOC. NO. CPI:

C2003-098712

TITLE:

Pharmaceutical composition useful for treating urinary

disorders, comprising combination of muscarinic

receptor or alpha-adrenergic receptor

antagonist, 5 alpha reductase inhibitor and 5HT-1

alpha receptor agonist or antagonist.

B05

100

DERWENT CLASS:

INVENTOR(S):

ANDERSSON, P; ARNERIC, S P

(ANDE-I) ANDERSSON P; (ARNE-I) ARNERIC S P; (PHAA)

PHARMACIA AB

COUNTRY COUNT:

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PG MAIN IPC WEEK LA PATENT NO KIND DATE

12 A61K000-00 WO 2003026564 A2 20030403 (200335)\* EN

RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU

MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM

US 2003060513 A1 20030327 (200335)

A61K031-137

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 20030265		WO 2002-SE1748	20020926
US 20030605		US 2001-965556	20010927

PRIORITY APPLN. INFO: SE 2001-3858

20011120; US 2001-965556

Jones 09/778290 Page 43

20010927

INT. PATENT CLASSIF.:

MAIN: A61K000-00; A61K031-137

BASIC ABSTRACT:

WO2003026564 A UPAB: 20030603

NOVELTY - A pharmaceutical composition (A) comprises:

(i) compound (I) selected from muscarinic receptor
antagonist, 5 alpha -reductase inhibitor and alpha adrenergic receptor antagonists or its precursors and
salts (preferably muscarinic receptor antagonist);

(ii) compound (II) selected from 5-HT-1 alpha receptor agonist or antagonist or its salts (preferably 5-HT-1 alpha receptor antagonist); and (iii) optionally carrier or diluent.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a kit for therapeutic treatment of urinary disorder in a mammal including humans comprising (I), (II) and optionally instructions for use.

ACTIVITY - Uropathic; Antidepressant; Tranquilizer.

MECHANISM OF ACTION - Unstable bladder contraction inhibitor.

USE - For treating urinary disorders such as lower urinary tract symptoms, unstable or overactive urinary bladder, bladder outflow obstructions, urinary incontinence, stress incontinence, interstitial cystitis and associated depression in mammals including humans (all claimed).

ADVANTAGE - The composition provides rapid relief from urinary disorders by inhibiting or suppressing unstable bladder contractions and diminishing problems associated with incomplete bladder emptying, with minimal amount of deleterious side effects and hence improving the quality of life.

Dwg.0/0

FILE SEGMENT: CPI FIELD AVAILABILITY: AB; DCN

MANUAL CODES: CPI: B06-A01; B10-B02G; B10-B03B; B14-D05D; B14-J01A1;

B14-J02B2; B14-J02D1; B14-J03; B14-J04; B14-L01;

B14-N07

L141 ANSWER 30 OF 31 WPIDS (C) 2003 THOMSON DERWENT

ACCESSION NUMBER:

2003-229267 [22] WPIDS

DOC. NO. CPI:

C2003-058832

TITLE:

Drug delivery device for controlled release of an active agent comprises a composition having a core and a coating

having pore-forming element having dissolution rate slower than the release rate the active ingredients.

DERWENT CLASS: INVENTOR(S):

A96 B05 B07 C03 C07 D22 CHOPRA, S; CHOPRA, S K

PATENT ASSIGNEE(S):

(CHOP-I) CHOPRA S; (CHOP-I) CHOPRA S K; (SAVI-N) SAVIT

CONSULTING INC

COUNTRY COUNT:

100

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

WO 2002094227 A1 20021128 (200322)\* EN 26 A61K009-22

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZM ZW

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DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT

RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

US 2003003151 A1 20030102 (200322) A61K009-24

APPLICATION DETAILS:

PATENT NO KIND

APPLICATION DATE

WO 2002094227 A1 WO 2002-IB1854 20020524 US 2003003151 A1 Provisional US 2001-293701P 20010525 US 2002-85234 20020228

PRIORITY APPLN. INFO: US 2002-85234 20020228; US 2001-293701P

20010525

INT. PATENT CLASSIF .:

MAIN: A61K009-22; A61K009-24

SECONDARY: A61K009-28; A61K009-30; A61K009-32; A61K009-36

BASIC ABSTRACT:

WO 200294227 A UPAB: 20030402

NOVELTY - A dissolution and diffusion device comprises a shaped core having planar release face and a compressed **mixture** of an active ingredient. The compressed core is coated, except for at least one exposed face. The pore-forming elements have a dissolution rate slower than the release rate so that the pore formation is completed after release of the active ingredients and the residual inert structures disintegrate.

DETAILED DESCRIPTION - A dissolution and diffusion device comprises a shaped core (a) and a coating (b). (a) comprises at least one planar release face in which the dimensions of the face remain constant throughout a substantial portion of the delivery period, a compressed mixture of active ingredient homogenously mixed with at least one dissolution regulator operable to release the active ingredient from the release face and optionally a score circumscribed on the surface to secure the coating. (b) surrounds and adheres to the core except the release faces. The coating contains an insoluble polymer and pore-forming elements operable to create channels in the insoluble coating to permit disintegration of the coating after release of the active ingredient is completed.

INDEPENDENT CLAIMS are included for the following:

- (1) Preparation of a chemical delivery device by dry granulation involving (a1) blending the active ingredient and a dissolution regulator and optionally with a diluent, (b1) optionally milling and sieving the resulting blend with a mesh size suitable for the specific application, (c1) mixing the blend with a soluble or insoluble lubricant and compressing the blend into tablet in punch machine, and (d1) coating the tablet with a mixture of an insoluble polymer and pore-forming elements using a compression-coating machine;
- (2) Preparation of a chemical delivery device by wet granulation involving blending the active ingredient and a dissolution regulator with water and/or an organic solvent and optionally with a diluent, drying the resulting blend, and steps (b1), (c1) and (d1);
- (3) Delivering a constant controlled release of an active compound into a fluid medium involving incorporating at least one biologically active ingredient into a tablet comprising (a) and (b) and placing the tablet in a fluid medium; and
- (4) Dissolution controlled chemical device providing controlled variable release of at least one biological active ingredient into a fluid medium through out a portion of the delivery period involving (a) and (b).

USE - For controlled release of an active agent for human or veterinary use (claimed).

ADVANTAGE - The device can deliver an active ingredient at a constant or controlled variable rate. The device can readily be scaled to different proportions to accommodate differing quantities of the active chemical, and thus have the capacity for longer release periods. As the core is slow dissolving, dose dumping is not prevalent in the delivery device. The hydrodynamic conditions prevailing in the stomach are minimized as only the peripheral face of the core is exposed. The device is reliable, predictable and insures disintegration of the insoluble impermeable coating to avoid elimination of the intact device. The rate of disintegration of the coating can be manipulated by adjusting the size,

density and composition of the pore-forming materials.

Dwg.0/6

FILE SEGMENT: CPI AB; DCN FIELD AVAILABILITY:

MANUAL CODES:

CPI: A12-V01; B04-C02A; B04-C03; B11-C03; B11-C04; B12-M10; B12-M11B; C04-C02A; C04-C03; C11-C03;

C11-C04; C12-M10; C12-M11B; D09-C01

L141 ANSWER 31 OF 31

WPIDS (C) 2003 THOMSON DERWENT

ACCESSION NUMBER:

2002-666878 [71] WPIDS

DOC. NO. CPI:

C2002-187190

TITLE:

Preparation of deformable syntactic foams useful as

pharmaceutical carriers for the delivery of a compound or

a chemical involves mixing a resin, binder and a

stabilizer and reacting the mixture with an

organic solvent.

DERWENT CLASS:

A96 B05 B07

INVENTOR(S):

ODIDI, A; ODIDI, I

PATENT ASSIGNEE(S):

(ODID-I) ODIDI A; (ODID-I) ODIDI I

100 COUNTRY COUNT:

PATENT INFORMATION:

KIND DATE WEEK LAPG MAIN IPC PATENT NO

WO 2002056861 A2 20020725 (200271)\* EN 47 A61K009-00

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM

7.W

#### APPLICATION DETAILS:

PAT	TENT NO	KIND		APPLICATION	DATE
WO	200205686	51 A2	•	WO 2002-CA54	20020117

PRIORITY APPLN. INFO: US 2001-765783 20010119

INT. PATENT CLASSIF.:

MATN:

A61K009-00

BASIC ABSTRACT:

WO 200256861 A UPAB: 20021105

NOVELTY - Preparation of a deformable syntactic foam comprises (a) mixing together at least one homopolymer resin, at least one binder and at least one stabilizer to form a blended mixture having a LOD of 1 -10%, and (b) reacting the blended mixture with at least one organic solvent under high shear conditions at 10 - 25 deg. C until a foam composition deformable to touch is formed.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Manufacturing a pharmaceutical carrier comprising:
- (a) mixing together at least one homopolymer resin, binder, microspheres and stabilizer to form a blended mixture having a LOD of 1 - 10%,
- (b) reacting the blended mixture with at least one organic solvent under high shear conditions at 10 - 25 deg. C until a foam composition deformable to touch is formed;
- (c) reducing the size of the deformable syntactic foam to reassemble into a shaped composite;
  - (2) A pharmaceutical composition comprising a pharmaceutical and a

pharmaceutical carrier; and

(3) A syntactic foam of elongate threads comprising homopolymer

resin, binder, microsphere and a stabilizer.

USE - As a pharmaceutical carrier for the delivery of a compound or a chemical (claimed) including pharmaceuticals. Also useful as carriers, coated or uncoated for chemicals, biological agents, nutraceuticals, growth factors, amino acids, bioactive materials and pharmaceutically active and inactive materials and have pharmaceutical, sanitary, veterinary, agricultural and medical applications.

ADVANTAGE - The foam is deformable and compressible. The foam permits the time release of pharmaceuticals in mammals particularly humans and reduces the frequency of taking a particular medicine. The foam is safe, stable and can be prepared by economical and versatile manufacturing processes.

Dwg.0/9

FILE SEGMENT:

CPI

FIELD AVAILABILITY:

AB; DCN

MANUAL CODES:

CPI: A12-V01; A12-W12; B01-A02; B01-D02; B02-A; B02-C03; B02-E; B04-C02A1; B04-C03B; B04-C03D; B05-A01B;

B05-B01G; B05-B02C; B06-F03; B06-H; B07-A02B; B07-H;

B08-D01; B10-A07; B10-A08; B10-A12C; B10-A13D;

B10-A18; B10-A19; B10-B02F; B10-B03B; B10-B04;

B10-C03; B10-C04B; B11-C01C

=> fil capl; d que 134
FILE 'CAPLUS' ENTERED AT 11:58:47 ON 04 JUN 2003
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FILE COVERS 1907 - 4 Jun 2003 VOL 138 ISS 23 FILE LAST UPDATED: 3 Jun 2003 (20030603/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L8
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=> s 134 not 133
L142 13 L34 NOT L33 previously
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=> fil medl; d que 161; d que 162

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FILE LAST UPDATED: 3 JUN 2003 (20030603/UP). FILE COVERS 1958 TO DATE.

On April 13, 2003, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See http://www.nlm.nih.gov/mesh/changes2003.html for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L41	652	SEA FILE=MEDLINE ABB=ON DARIFEN!CIN# OR TOLTERODIN# OR DETROL
		OR OXYBUTYNIN# OR CYSTRIN# OR OXYTROL#
L45	11277	SEA FILE=MEDLINE ABB=ON PROSTATIC HYPERPLASIA/CT
L50	37304	SEA FILE=MEDLINE ABB=ON BLADDER/CT OR URETHRA/CT
L53	10288	SEA FILE=MEDLINE ABB=ON ADRENERGIC ALPHA-ANTAGONISTS/CT
L54	3097	SEA FILE=MEDLINE ABB=ON MUSCARINIC ANTAGONISTS/CT
L60	5500	SEA FILE=MEDLINE ABB=ON URINATION/CT
L62	11	SEA FILE=MEDLINE ABB=ON ((L35 OR L36 OR L37 OR L38 OR L39) OR
		L53) AND (L54 OR L40 OR L41) AND (L50 OR L45 OR L60)

=> s (161 or 162) not 1139

L143 12 (L61 OR L62) NOT (L139) Previous

=> fil embase; d que 1115; s 1115 not 1140

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FILE COVERS 1974 TO 29 May 2003 (20030529/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L9	5	SEA	FILE=REGISTE	RY ABB=ON	N INDORAMIN?/CN
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		OR	DOXAZOSIN ME	ESYLATE/O	CT
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L90	37	SEA	FILE=EMBASE	ABB=ON	ABANOQUIL/CT
L91	16803	SEA	FILE=EMBASE	ABB=ON	PRAZOSIN/CT OR PRAZOSIN DERIVATIVE/CT
L92			FILE=EMBASE		INDORAMIN/CT OR INDORAMIN DERIVATIVE/CT
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L93	2282	SEA	FILE=EMBASE	ABB=ON	MUSCARINIC RECEPTOR BLOCKING AGENT/CT
L94	1809	SEA	FILE=EMBASE	ABB=ON	(L10 OR L11 OR L12)
L95	92	SEA	FILE=EMBASE	ABB=ON	DARIFENACIN/CT
L96			FILE=EMBASE		TOLTERODINE/CT OR TOLTERODINE TARTRATE/
		CT			
L97	1627	SEA	FILE=EMBASE	ABB=ON	OXYBUTYNIN/CT
L98			FILE=EMBASE		DRUG COMBINATION/CT
L99			FILE=EMBASE		DRUG INTERACTION+NT/CT
L100			FILE=EMBASE		BLADDER/CT OR URETHRA/CT
L101		-	FILE=EMBASE		PROSTATE HYPERTROPHY/CT
L102			FILE=EMBASE		MICTURITION/CT
L103			FILE=EMBASE		· ·
L115	14	L91		(L93 OR	(L86 OR L87 OR L88 OR L89 OR L90 OR L94 OR L95 OR L96 OR L97) AND (L100 OR ND (L98 OR L99)

L144 11 L115 NOT (L140) previously

=> fil wpids; d que 1135; s 1135 not 1137

FILE 'WPIDS' ENTERED AT 11:58:51 ON 04 JUN 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

FILE LAST UPDATED: 3 JUN 2003 <20030603/UP>
MOST RECENT DERWENT UPDATE: 200335 <200335/DW>
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L116	508	SEA FILE=WPIDS ABB=ON (ADRENOCEPTOR OR ADRENERGIC) (2A) ALPHA(2A
		) (ANTAGONIST# OR BLOCK?)
L117	112	SEA FILE=WPIDS ABB=ON DOXAZOSIN# OR CARDURA# OR UK33274 OR UK
		33274 OP HVMDTN# OP
L118	. 79	SEA FILE=WPIDS ABB=ON TETRAZOSIN# OR TERAZOSIN# OR HYTRIN# OR
		A45975 OR A 45975
L119	4	SEA FILE=WPIDS ABB=ON ABANOQUIL# OR UK52046 OR UK 52046
L120	200	SEA FILE=WPIDS ABB=ON PRAZOSIN# OR FURAZOSIN# OR PRATSIOL#
L121	31	SEA FILE=WPIDS ABB=ON INDORAMIN# OR WY21901 OR WY 21901
L122	183	SEA FILE=WPIDS ABB=ON MUSCARINIC(2A) (ANTAGONIST# OR BLOCK?)
L123	124	SEA FILE=WPIDS ABB=ON DARIFEN!CIN# OR TOLTERODIN# OR DETROL
		OR OXYBUTYNIN# OR CYSTRIN# OR OXYTROL#
L124	12792	
L126	7194	SEA FILE=WPIDS ABB=ON PROSTATE
L127	5291	
L134	9005	SEA FILE=WPIDS ABB=ON URINA?
L135	5	SEA FILE=WPIDS ABB=ON (L116 OR L117 OR L118 OR L119 OR L120
		OR L121) AND (L122 OR L123) AND (L124 OR (L126 OR L127) OR
		L134)

L145 2 L135 NOT (L137) previously

=> dup rem 1142,1143,1144,1145

FILE 'CAPLUS' ENTERED AT 11:59:15 ON 04 JUN 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'MEDLINE' ENTERED AT 11:59:15 ON 04 JUN 2003

FILE 'EMBASE' ENTERED AT 11:59:15 ON 04 JUN 2003 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

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FILE 'WPIDS' ENTERED AT 11:59:15 ON 04 JUN 2003
COPYRIGHT (C) 2003 THOMSON DERWENT
PROCESSING COMPLETED FOR L142
PROCESSING COMPLETED FOR L143
PROCESSING COMPLETED FOR L144
PROCESSING COMPLETED FOR L145
             35 DUP REM L142 L143 L144 L145 (3 DUPLICATES REMOVED)
                ANSWERS '1-13' FROM FILE CAPLUS
                ANSWERS '14-25' FROM FILE MEDLINE
                ANSWERS '26-35' FROM FILE EMBASE
=> d ibib ab hitrn 1-13; d iall 14-35; fil hom
L146 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2003 ACS
                                                       DUPLICATE 1
ACCESSION NUMBER:
                     2002:122770 CAPLUS
                       . 136:178015
DOCUMENT NUMBER:
TITLE:
                        Drugs for incontinence - salified and nonsalified
                        nitric oxide-donors and phosphodiesterase inhibitors
INVENTOR(S):
                        Del Soldato, Piero; Benedini, Francesca
PATENT ASSIGNEE(S):
                       Nicox S.A., Fr.
                        PCT Int. Appl., 59 pp.
SOURCE:
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        \cdotPatent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO.
                    KIND DATE
                                          APPLICATION NO. DATE
                     ____
    WO 2002011707
                      A2
                            20020214
                                          WO 2001-EP8734
                                                            20010727
    WO 2002011707
                     А3
                            20021205
         W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ,
             EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT,
             LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA,
             US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                         AU 2001-91691 20010727
                      Α5
                            20020218
    AU 2001091691
                                          EP 2001-971798
    EP 1307184
                            20030507
                       Α2
                                                            20010727
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.:
                                        IT 2000-MI1848
                                                         A 20000808
                                        WO 2001-EP8734
                                                         W 20010727
OTHER SOURCE(S):
                         MARPAT 136:178015
    Use in the incontinence of one or more of the following classes of drugs
     selected from the following: (B) salified and nonsalified nitric
     oxide-donor drugs, of formula: A - X1 - N(O)z, (B') nitrate salts of drugs
     used for the incontinence, and which do not contain in the mol. a nitric
     oxide donor group; (C) org. or inorg. salts of compds. inhibiting
     phosphodiesterases.
ΙT
     1508-65-2, Oxybutynin hydrochloride
     RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use);
     BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
        (salified and nonsalified nitric oxide-donors and phosphodiesterase
        inhibitors for treatment of incontinence)
IT
     5633-20-5 19216-56-9, Prazosin
     74191-85-8, Doxazosin 124937-51-5,
     Tolterodine 133099-04-4
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (salified and nonsalified nitric oxide-donors and phosphodiesterase
```

## inhibitors for treatment of incontinence)

DUPLICATE 2 L146 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2003 ACS 2001:228701 CAPLUS ACCESSION NUMBER: 134:247264 DOCUMENT NUMBER: Treatment of lower urinary tract symptoms with TITLE: muscarinic and .alpha.-adrenergic antagonists and 5.alpha.-reductase inhibitors, and pharmaceutical compositions for use therein Stoner, Elizabeth; Drake, Paul J.; Bach, Mark A. INVENTOR(S): Merck & Co., Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 20 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. DATE KIND DATE PATENT NO. \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ WO 2000-US25534 20000918 20010329 WO 2001021167 Α1 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, CT, CA, CT, CT, TM, TD, TM, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 1999-155357P P 19990922 PRIORITY APPLN. INFO.: MARPAT 134:247264 OTHER SOURCE(S): A medical condition in men known as Lower Urinary Tract Symptoms (LUTS) is treated by the administration of a muscarinic receptor antagonist in combination with at least one of a 5.alpha.-reductase inhibitor and an .alpha.-adrenergic receptor blocker. 5633-20-5, Oxybutynin 19216-56-9, Prazosin 26844-12-2, Indoramin 63590-64-7, Terazosin 74191-85-8, Doxazosin 90402-40-7, Abanoquil 124937-51-5, Tolterodine 133099-04-4, Darifenacin RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES . (Uses) (muscarinic and .alpha.-adrenergic antagonists and 5.alpha.-reductase inhibitors for treatment of lower urinary tract symptoms , and pharmaceutical compns.) THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 4 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L146 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2003 ACS 2003:261600 CAPLUS ACCESSION NUMBER: 138:276286 DOCUMENT NUMBER: Pharmaceutical compositions contg. muscarinic TITLE: antagonists and 5.alpha.-reductase inhibitors for urinary tract disorder treatment Arneric, Stephen P.; Andersson, Per-Olof INVENTOR(S): Pharmacia AB, Swed. PATENT ASSIGNEE(S): PCT Int. Appl., 23 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE:

Jones 09/778290

Page 53

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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PATENT NO.
                    KIND
                          DATE
                                        APPLICATION NO. DATE
                    ____
     ______
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                                      WO 2002-SE1748 20020926
    WO 2003026564
                    A2
                          20030403
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
            UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
            TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
            CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
            NE, SN, TD, TG
                          20030327
                                                        20010927
    US 2003060513
                    A1
                                         US 2001-965556
                                      US 2001-965556 A 20010927
PRIORITY APPLN. INFO.:
                                      SE 2001-3858
                                                     A 20011120
```

The present invention concerns the field of urol. The invention provides AB a pharmaceutical compn. comprising a combination of a first compd. selected from the group consisting of muscarinic receptor antagonists, 5.alpha.-reductase inhibitors, and .alpha.-adrenergic receptor antagonists, and precursors and salts, and a second compd. selected from the group consisting of 5-HTla receptor agonists and antagonists, and precursors and salts thereof, and optionally a carrier or a diluent. There is also provided a method of treatment of urinary disorders in a mammal, including humans. A pharmaceutical compn. is prepd. by combining tolterodine with a neutral 5-HTla receptor antagonist in a carrier. The compn. contains 0.05-4 mg tolterodine/kg patient body wt. (e.g., 3-240 mg tolterodine for a person weighing 60 kg) and 0.01-1 mg of neutral 5-HTla receptor antagonist/kg of patient body wt. The compn. is administered to a patient for the treatment of incontinence, and particularly stress incontinence, urge incontinence or mixed incontinence.

ΙT 5633-20-5, Oxybutynin 124937-51-5, Tolterodine 124937-52-6 133099-04-4, Darifenacin

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical compns. contg. muscarinic antagonists and 5.alpha.-reductase inhibitors for urinary tract disorder treatment)

L146 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2003 ACS 2003:242003 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

138:260465

TITLE:

Pharmaceutical composition comprising receptor

agonists and antagonists treatment of urinary disorder

INVENTOR(S):

Arneric, Stephen P.; Andersson, Per-Olof

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.	KIN	D DATE			APPLI	CATIO	ON NO	). 	DATE			
US 2003 WO 2003			2003 2003			US 20 WO 20			•				
₩:	co, c	R, CU,	AM, AT, CZ, DE, ID, IL,	DK, I	DM, DZ	, EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,

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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                           A 20010927
                                         US 2001-965556
PRIORITY APPLN. INFO.:
                                                          A 20011120
                                         SE 2001-3858
```

The present invention concerns the field of urol. The invention provides AΒ a novel pharmaceutical compn., comprising a pharmaceutically effective combination of (i) a first compd. selected from the group consisting of muscarinic receptor antagonists, 5.alpha.-reductase inhibitors, and .alpha.-adrenergic receptor antagonists, and precursors and pharmaceutically acceptable salts thereof, and (ii) a second compd. selected from the group consisting of 5-HTla receptor agonists and antagonists, and precursors and pharmaceutically acceptable salts thereof, and optionally a pharmaceutically acceptable carrier or diluent therefor. There is also provided a method of therapeutical treatment of urinary disorder in a mammal, including man, comprising administering to said mammal, including man, in need of such treatment, a therapeutically effective amt. of a compn. according to the invention. A pharmaceutical compn. contained between about 2 mg to about 20 mg of 5a-reductase inhibitor and between about 0.5 mg to about 50 mg of neutral 5-HTla receptor antagonist. The compn. is administered to a patient for the treatment of urinary disorder.

5633-20-5, Oxybutynin 124937-51-5, Tolterodine 133099-04-4, Darifenacin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(pharmaceutical compn. comprising receptor agonists and antagonists treatment of urinary disorder)

CAPLUS COPYRIGHT 2003 ACS. L146 ANSWER 5 OF 35

ACCESSION NUMBER:

2001:185528 CAPLUS

DOCUMENT NUMBER:

134:242644

TITLE:

Methods and compositions for preventing and treating

urinary tract disorders

INVENTOR(S):

Neal, Gary W.

PATENT ASSIGNEE(S):

Androsolutions, Inc., USA PCT Int. Appl., 32 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT N	KIND DATE				Al	PLIC	CATIO	). I	DATE							
WO 20010		2001		·												
WO 20010 W:	AE, CR, HU,	AG, CU, ID,	AL, CZ, IL,	AM, DE, IN,	2001: AT, DK, IS, MG,	AU, DM, JP,	DZ, KE, MN.	EE, KG, MW.	KP,	KR, MZ,	KZ,	LC,	LK, PL,	LR,	LS, RO,	LT, RU,
RW:	ZA, GH,	ZW, GM,	AM, KE,	AZ, LS, FI.	SK, BY, MW, FR,	KG, MZ, GB,	KZ, SD, GR,	MD, SL, IE,	RU, SZ, IT,	TZ, LU,	UG, MC,	ZW, NL,	AT, PT,	BE,	CH,	CY,
EP 1214 R:	0.20		2\	2	GA, 2002 DK,	ი619		E	P 20	00-9	<b>6168</b>	1	2000	0908 MC,	PT,	IE,

SI, LT, LV, FI, RO, MK, CY, AL PRIORITY APPLN. INFO.: US 1999-152902P P 19990909 WO 2000-US24685 W 20000908

AB The present invention relates to methods, compns., devices and kits for the prevention and treatment of urinary tract disorders in mammals, including, but not limited to, urinary incontinence of any etiol., urinary hesitancy, fibrosis of the urinary tract, urinary dribbling, cystitis of any etiol., urinary frequency, and bladder cancer. The present invention provides methods for preventing and treating urinary tract disorders in mammals by administration of a therapeutic compd. to mucosal membranes in the lower urinary tract of the mammal. The present invention also provides devices for administering a therapeutic compd. to mucosal membranes in the lower urinary tract of the mammal. PGE-2 was added in a base matrix contg. tripalmitin and Me palmitate, and the mixt. was drawn into rigid tube made of high-d. polyethylene to obtain soft suppositories.

5633-20-5, Oxybutynin 19237-84-4, TΤ

Prazosin hydrochloride 74191-85-8, Doxazosin

124937-51-5, Tolterodine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of urinary tract disorders by administering drug to mucosal membranes of lower urinary tract)

L146 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2003 ACS 2000:608551 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

133:213151

TITLE:

Pharmaceutical compositions and methods for improved

delivery of hydrophobic therapeutic agents

INVENTOR(S):

Patel, Manesh V.; Chen, Feng-Jing

PATENT ASSIGNEE(S):

Lipocine, Inc., USA PCT Int. Appl., 98 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.			KIND DATE					A	PPLI	CATI	٥.	DATE					
WO	2000	0500	07	 A:	A1 20000831				WO 2000-US165						20000105			
	W:	AE,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,	
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		-		-										LT,				
		MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	
														ZA,				
		BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM					•					
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ,	ŪG,	ZW,	AT,	BE,	CH,	CY,	DE,	
														SE,				
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG					
US	6294	192		В.	1	2001	0925		US 1999-258654									
NZ	5138	10		Α		2001	0928		N.	Z 20	00-5	1381	0	20000	0105			
EP	1158	959		A.	1	2001	1205		. E	P 20	00-9	0139	4	20000	0105			
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	LT,	LV,	FI,	RO											
JP	2002	5373	17	T:	2	2002	1105		J:	P 20	00-6	0061	9	2000	0105			
PRIORIT	Y APP	LN.	INFO	. :				1	US 1	999-	2586	54	Α	1999	0226			
								1	WO 2	000-	US16	5	W	2000	0105			

The present invention relates to triglyceride-free pharmaceutical compns. for delivery of hydrophobic therapeutic agents. Compns. of the present invention include a hydrophobic therapeutic agent and a carrier, where the carrier is formed from a combination of a hydrophilic surfactant and a hydrophobic surfactant. Upon diln. with an aq. solvent, the compn. forms a clear, aq. dispersion of the surfactants contg. the therapeutic agent. The invention also provides methods of treatment with hydrophobic

therapeutic agents using these compns. A pharmaceutical compn. contained cyclosporin 0.14, Cremophor RH-40 0.41, Arlacel186 0.29, sodium taurocholate 0.26, and propylene glycol 0.46 mg.

63590-64-7, Terazosin IT

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical compns. and methods for improved delivery of

hydrophobic therapeutic agents)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L146 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2003 ACS 2001:41675 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

135:81

TITLE:

New roles for muscarinic receptors in the pathophysiology of lower urinary tract symptoms

AUTHOR(S):

Andersson, K.-E.

CORPORATE SOURCE:

Department of Clinical Pharmacology, Lund University

Hospital, Lund, Swed.

SOURCE:

BJU International (2000), 86(Suppl. 2), 36-43

CODEN: BJINFO; ISSN: 1464-4096

Blackwell Science Ltd. PUBLISHER: Journal; General Review DOCUMENT TYPE:

English

LANGUAGE:

A review with 77 refs. The efficacy of both antimuscarinic drugs and .alpha.1-adrenoceptor antagonists in the treatment of lower urinary tract symptoms (LUTS) supports an important role for both muscarinic receptors and .alpha.1-adrenoceptors in the pathogenesis of the symptoms, and suggests that a combination of antimuscarinic drugs and

.alpha.1-adrenoceptor antagonists may have treatment advantages. 77

REFERENCE COUNT:

THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS L146 ANSWER 8 OF 35 1998:534795 CAPLUS

ACCESSION NUMBER:

129:153255

DOCUMENT NUMBER: TITLE:

Controlled-release formulations for treating early

morning pathologies

INVENTOR(S):

Busetti, Cesare; Crimella, Tiziano Poli Industria Chimica Spa, Italy

PATENT ASSIGNEE(S): SOURCE:

U.S., 9 pp. CODEN: USXXAM

Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAI	ENT N	ο.		KIN	1D	DATE			A -	PPLIC	CATIC	ON NO		DATE			
	RW:	25 AL, DK, KZ, PL, UZ, GH,	AM, EE, LC, PT, VN, GM,	AT, ES, LK, RO, AM, KE, GR,	AU, FI, LR, RU, AZ, LS, IE,	AZ, GB, LS, SD, BY, MW, IT,	O730 BA, GE, LT, SE, KG, SD, LU,	BB, GM, LU, SG, KZ, SZ, MC,	W BG, HU, LV, SI, MD, UG, NL,	MD, SK, RU,	BY, IL, MG, TJ, TJ,	CA, IS, MK, TM, TM BE.	CH, JP, MN, TR,	1997( 1997) CN, KE, MW, TT, DE, CF,	CU, KG, MX, UA,	NO, UG, ES,	NZ, US, FI,
EP	98533 95429 R: 20019	GA, 356 32 BE, 5111	GN, DE, 26	ML, A A ES, T	MR, 1 .1 FR,	NE, 1998 1999 , GB,	SN, 0818 1110	TU,	TG F	U 19 IP 19 IP 19 L997-	98-5 97-9 98-5	3356 5035 3176	2	1997 1997 1997	1216 1216		

WO 1997-IB1632 W 19971216

Early morning pathologies are treated by use of a time-specific AΒ controlled-release dosage formulation which is administered prior to sleep; the formulation delivers a pharmaceutically active agent effective for treatment of the pathol. at about the time of awakening. The formulation comprises a core contg. the drug and a swellable polymeric coating layer surrounding the core. The swellable polymeric coating layer delays the release of the drug from the core for a predetd, period of time dependent on the thickness of the layer, to effect delivery of the drug at about the time of awakening. Early morning pathologies include asthma, angina, hypertension, myocardial or cerebral infarction, arthritis, incontinence, parkinsonism, and sleep disorders. Thus, a granular mixt. of diclofenac Na 25, CaHPO4.2H2O 94.5, microcryst. cellulose 113, tartaric acid 25, NaHCO3 25,, colloidal SiO2 1.5, and Mg stearate 1 wt. parts was pressed into 285-mg tablet cores and coated with an aq. soln. contg. hydroxypropylmethylcellulose 7.5 and PEG-6000 1.5 wt.% until the coating wt. was 50% of the core wt. The coated tablets showed a dissoln. time lag >300 min, followed by quick disintegration.

IΤ 5633-20-5, Oxybutynin

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(controlled-release formulations for treating early morning pathologies)

REFERENCE COUNT:

THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS L146 ANSWER 9 OF 35

ACCESSION NUMBER:

1996:525366 CAPLUS

DOCUMENT NUMBER:

125:211656

Wiley-Liss

TITLE:

Analysis of pressure/flow characteristics in the

female rat and their pharmacologic modulation Watanabe, Takeshi; Constantinou, Christos E.

AUTHOR(S): CORPORATE SOURCE:

Department Urology, Tottori University, Yonago, Japan

Neurourology and Urodynamics (1996), 15(5), 513-527 SOURCE:

CODEN: NEUREM; ISSN: 0733-2467

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE: English

A new in vivo urodynamic animal model was developed to analyze the micturition characteristics of the rat. This model was used to study the modulating effect of pharmacol. agents on vesicourethral function, using cystometry and uroflowmetry. Pressure-flow studies were done in 25 female rats anesthetized with urethane. Filling cystometry was recorded using a physiol. rate of bladder filling through transvesical infusion. Micturition characterization was done by identifying the time course and amt. of voided vol. Voided vol. was measured by a novel application of a mechanotransducer, which provided the data to measure flow rate and compute the voided vol.-time curve. Flow rate was calcd. by differentiating the curve produced by the mechanotransducer. system, comparative tests of pharmacol. stimulus were done using anticholinergic stimulation, .alpha.1 blocker, and a new N-methyl-D-aspartate (NMDA) receptor antagonist. The effects of the i.v. use of these drugs in the lower urinary tract were evaluated at various dose levels. The results showed that anticholinergic stimulation produced an increase of bladder capacity and decreases of detrusor pressure and max. flow rate. Although the .alpha.1 blocker decreased detrusor pressure, flow rate did not change significantly. By contrast, NMDA receptor antagonism produced a depressant effect on bladder reflex contraction, and increased bladder capacity in a dose-dependent way. However, max. flow rate increased at a dose of 10 mg/kg and decreased at 30 mg/kg significantly. These results suggest that a decrease in flow resistance through the outlet region was due to the effects of NMDA

Page 58

Jones 09/7

receptor inhibition at lower doses. In conclusion, this model enables the evaluation of drugs regarding lower urinary tract function and provides in small animals the possibility of evaluating the relationships between pressure and flow in various exptl. models.

IT 1508-65-2, Oxybutynin chloride 19216-56-9,

#### Prazosin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(urodynamic animal model to analyze micturition and its pharmacol. characterization)

L146 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:73296 CAPLUS

104-07772

DOCUMENT NUMBER:

124:97773

TITLE:

Percutaneously administrable preparation for treating

urination disorder

INVENTOR(S):

Nakamura, Katsuhiro; Koga, Nobuyuki

PATENT ASSIGNEE(S):

Hisamitsu Pharmaceutical Co., Inc., Japan

SOURCE:

PCT Int. Appl., 46 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

DOCUMENT

Patent Japanese

LANGUAGE:

Japanes

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.	KIND	DATE		APPLICATION NO.	DATE
WO 9531	190	 A1	19951123		WO 1995-JP946	19950518
W:	AU, CA,		, KR, US,			
RW:	AT, BE,	CH, DE	, DK, ES,	FR,	GB, GR, IE, IT, LU,	
AU 9524		A1	19951205		AU 1995-24544	19950518
EP 7602	38	A1	19970305		EP 1995-918735	19950518
EP 7602	38	B1	20020417			
R:	CH, DE,	DK, ES	, FR, GB,	ΙE,	IT, LI, NL	
ES 2172		Т3	20021001		ES 1995-918735	19950518
US 5770	221	A	19980623		US 1996-737160	19961115
PRIORITY APP	LN. INFO	.:			JP 1994-128162 A	19940518
		•			WO 1995-JP946 W	19950518

AB A percutaneously administrable prepn. for treating urination disorder comprises a remedy for urination disorder and a pressure-sensitive adhesive contg. low- and high-mol.-wt. polyisobutylenes and a fat or oil as the principal base; and another such prepn. comprises a remedy for urination disorder and a pressure-sensitive adhesive contg. low- and high-mol.-wt. polyisobutylenes, a fat or oil and a styrene-isoprene-styrene block copolymer as the principal base. These prepns., contg. the above-specific base component, are excellent in stability even after the lapse of time, lowly irritative to the skin, and excellent in percutaneous absorbability. As an example, high-mol.-wt. polyisobutylene 15.5, low-mol.-wt. polyisobutylene 16.5, squalane 45.0, hydrogenated rosin esters 10.0 and pepper oil 3.0 wt. parts were dissolved in hexane, mixed with oxybutynin, and spread on a separable sheet, which was placed on a polyester film to give a percutaneous prepn.

IT 1508-65-2, Oxybutynin hydrochloride 5633-20-5,

Oxybutynin 19216-56-9, Prazosin

63590-64-7, Terazosin

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Percutaneously administrable prepn. for treating urination disorder)

L146 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1994:499511 CAPLUS

DOCUMENT NUMBER:

121:99511 CAF

TITLE:

Effects of intravesically administered

Jones 09/778290 Page 59

anticholinergics, a .beta.-adrenergic stimulant and an .alpha.-adrenergic blocker on bladder function in

unanesthetized rats

AUTHOR(S): Ukimura, Osamu

CORPORATE SOURCE: Dep. Urol., Kyoto Prefect. Univ. Med., Kyoto, 602,

Japan

SOURCE: Tohoku Journal of Experimental Medicine (1993).

170(4), 251-60

CODEN: TJEMAO; ISSN: 0040-8727

DOCUMENT TYPE: Journal LANGUAGE: English

AB Comparative anal. of the effects of intravesical instillation of the title drugs on urodynamic parameters was performed in unanesthetized rats. The drugs were atropine (7.2 .times. 10-4-7.2 .times. 10-2M), propantheline (7.2 .times. 10-3-2.2 .times. 10-2M), oxybutynin (2.5 .times. 10-3-2.5 .times. 10-2M), isoproterenol (5 .times. 10-2-10-1M) and prazosin (5 .times. 10-4M). These intravesical drugs suppressed spontaneous bladder contractions and changed micturition function in the urinary filling and storage phases.

IT 5633-20-5, Oxybutynin 19216-56-9,

Prazosin

RL: BIOL (Biological study)
 (bladder function response to)

L146 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:420336 CAPLUS

DOCUMENT NUMBER: 119:20336

TITLE: Effects of drugs used in the therapy of detrusor

hyperactivity on the volume-induced contractions of

the rat urinary bladder

AUTHOR(S): Guarneri, L.; Ibba, M.; Angelico, P.; Colombo, D.;

Fredella, B.; Testa, R.

CORPORATE SOURCE: Pharmacol. Dep., Recordati S.p.A., Milan, 20148, Italy

SOURCE: Pharmacological Research (1993), 27(2), 173-87

CODEN: PHMREP; ISSN: 1043-6618

DOCUMENT TYPE: Journal LANGUAGE: English

In this study, the authors examd. the effects of the drugs most commonly utilized in the therapy of overactive detrusor, on the vol.-induced contractions of rat urinary bladder. Anticholinergics such as propantheline bromide and emepronium bromide, as well as oxybutynin decreased the amplitude of the voiding contractions after i.v. administration in a dose-dependent way. These anticholinergics, on the other hand, generally increased the frequency of the contractions. Nifedipine dose-dependently reduced the amplitude of the contractions. Flavoxate induced a dose-related decrease in the frequency without effects on the amplitude of the peaks. Its main metabolite 3-methylflavone-8carboxylic acid (MFCA) was inactive after i.v. administration. Terodiline was active on the amplitude and apparently on the frequency of the voiding contractions. The .alpha.-adrenoceptor antagonist prazosin, as well as indomethacin, inhibited only the frequency of the voiding contractions. All the drugs active in reducing the frequency of the voiding contractions after i.v. administration, proved effective also after intracerebroventricular (i.c.v.) injection. The model of the vol.-induced contractions of rat urinary bladder, seems to be a useful tool to evaluate in vivo the effects of a compd. on the bladder, allowing the possibility of distinguishing among antimuscarinics and calcium antagonists, which peripherally decrease bladder contractility, and other drugs inducing a decrease in the frequency of the voiding reflex acting on the micturition centers in the CNS.

IT 5633-20-5, Oxybutynin 19216-56-9,

Prazosin

RL: BIOL (Biological study)

(urinary bladder contraction response to, detrusor hyperactivity treatment in relation to)

L146 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2003 ACS 1982:574990 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 97:174990

Direct measurement of the anticholinergic activity of TITLE: a series of pharmacological compounds on the canine

and rabbit urinary bladder

Levin, Robert M.; Wein, Alan J. AUTHOR(S):

Sch. Med., Univ. Pennsylvania, Philadelphia, PA, USA CORPORATE SOURCE: Journal of Urology (Hagerstown, MD, United States) SOURCE:

(1982), 128(2), 396-8

CODEN: JOURAA; ISSN: 0022-5347

Journal DOCUMENT TYPE: English LANGUAGE:

The relative potency of a variety of drugs to compete for muscarinic AB cholinergic receptors isolated from the canine and rabbit urinary bladder was detd. Radio-ligand binding assays for muscarinic receptors were performed with 10 nM 3H-labeled quinuclidinyl benzilate and various concns. of the drugs under study. Of the agents tested propantheline (I) [298-50-0], atropine [51-55-8], and glycopyrrolate [596-51-0] were the potent muscarinic antagonists/unit of concn. oxybutynin [ 5633-20-5] And dicyclomine [77-19-0] were 30 to 50 times less potent than atropine. chloropromazine [50-53-3] And desmethylimipramine [50-47-5] were approx. 500 times less potent than atropine. Agents such as guanethidine [55-65-2], tranylcypromine [155-09-9], and hexamethonium [60-26-4] possessed little antimuscarinic activity.

5633-20-5 19216-56-9 ΙT

RL: BIOL (Biological study)

(antimuscarinic activity of, bladder response in relation to)

DUPLICATE 3 MEDLINE L146 ANSWER 14 OF 35

1999321789 MEDLINE ACCESSION NUMBER:

PubMed ID: 10393480 99321789 DOCUMENT NUMBER:

Pharmacological management of incontinence. TITLE:

Sullivan J; Abrams P AUTHOR:

Bristol Urological Institute, Southmead Hospital, Bristol, CORPORATE SOURCE:

UK.. edu@bui.ac.uk

EUROPEAN UROLOGY, (1999) 36 Suppl 1 89-95. Ref: 29 SOURCE:

Journal code: 7512719. ISSN: 0302-2838.

Switzerland PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

General Review; (REVIEW)

(REVIEW, TUTORIAL)

English LANGUAGE:

Priority Journals FILE SEGMENT:

199907 ENTRY MONTH:

Entered STN: 19990816 ENTRY DATE:

Last Updated on STN: 19990816

Entered Medline: 19990730

ABSTRACT:

Many patients with incontinence do not need surgery - for these patients symptoms can often be considerably improved by conservative measures, including drugs. Several different pharmacological actions are potentially useful depending on the underlying cause of the incontinence: a) Detrusor instability (DI) responds to drugs reducing bladder contractility: Anticholinergic agents, e.g. oxybutynin and tolterodine, act at postganglionic

parasympathetic cholinergic receptor sites on the detrusor muscle, reducing the strength of the detrusor contraction. Tricyclic antidepressants, e.g.

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imipramine, have anticholinergic effects, block presynaptic uptake of amine neurotransmitters and directly inhibit detrusor muscle. Alpha-adrenergic antagonists may have a role to play by dual actions on bladder overactivity (due to altered receptor function) and by reducing outlet resistance. b) Genuine stress incontinence (GSI) may be treated using alpha-adrenergic agonists, e.g. phenylpropanolamine, to increase outlet resistance by stimulating smooth muscle of the urethra and bladder neck. c) In nocturnal enuresis reduction of nocturnal unine output with the anti-diuretic hormone (ADH) analogue DDAVP (1-deamino, 8-arginine vasopressin) is beneficial. d) Bladder emptying may be facilitated in patients with retention and 'overflow' incontinence by alpha-adrenergic antagonists, which reduce outlet resistance, and perhaps by parasympathomimetics, e.g. bethanecol. e) In postmenopausal women, systemic oestrogen replacement reduces filling symptoms including urge Evidence for oestrogen replacement alone in GSI is lacking, but incontinence. combination with alpha-agonists is beneficial in milder GSI. For the future, \*\*\*tolterodine\*\*\* and other new anticholinergics offer the hope of treatment for DI with fewer of the side effects that limit the use of established drugs. Better understanding of the pathophysiology of DI may provide new targets for drug therapy, such as hyperpolarisation of detrusor muscle membrane. Alpha-agonists may find a greater role in the future, as may ADH analogues for noctural symptoms.

CONTROLLED TERM:

Check Tags: Human

Adrenergic alpha-Agonists: TU, therapeutic use Adrenergic alpha-Antagonists: TU, therapeutic use Bladder: DE, drug effects

Cholinergic Antagonists: TU, therapeutic use

\*Urinary Incontinence: DT, drug therapy Urinary Incontinence: ET, etiology

Urinary Incontinence: PP, physiopathology Urinary Incontinence, Stress: DT, drug therapy Urinary Incontinence, Stress: PP, physiopathology

CHEMICAL NAME:

0 (Adrenergic alpha-Agonists); 0 (Adrenergic alpha-Antagonists); 0 (Cholinergic Antagonists)

L146 ANSWER 15 OF 35 MEDLINE

ACCESSION NUMBER: 2003166117 MEDLINE

DOCUMENT NUMBER: 22570270 PubMed ID: 12683100

TITLE: Managing lower urinary tract symptoms in men.

AUTHOR: Anonymous

DRUG AND THERAPEUTICS BULLETIN, (2003 Mar) 41 (3) 18-21. SOURCE:

Journal code: 0112037. ISSN: 0012-6543.

PUB. COUNTRY:

England: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200305

ENTRY DATE:

Entered STN: 20030410

Last Updated on STN: 20030520 Entered Medline: 20030519

## ABSTRACT:

Over one-quarter of men aged 40 years or over in the UK have lower urinary tract symptoms. These symptoms, which may seriously disrupt day-to-day activity, include frequency, urgency, hesitancy, reduced flow, dribbling, nocturia, incontinence and incomplete emptying of the bladder. Here, we review non-surgical measures that may help men with such symptoms. CONTROLLED TERM:

Check Tags: Human; Male

Adrenergic alpha-Antagonists: TU, therapeutic use

Adult Aged

Enzyme Inhibitors: AD, administration & dosage

Middle Age

Muscarinic Antagonists: TU, therapeutic use

Phytotherapy: MT, methods

09/778290

Prostatic Hyperplasia: CO, complications \*Prostatic Hyperplasia: DT, drug therapy

Referral and Consultation

Testosterone 5-alpha-Reductase: AI, antagonists &

inhibitors

\*Urinary Retention: DT, drug therapy

Urinary Retention: ET, etiology

0 (Adrenergic alpha-Antagonists); 0 (Enzyme Inhibitors); 0 CHEMICAL NAME:

(Muscarinic Antagonists); EC 1.3.99.5 (Testosterone

5-alpha-Reductase)

L146 ANSWER 16 OF 35

MEDLINE

ACCESSION NUMBER:

MEDLINE 1998266593

DOCUMENT NUMBER:

PubMed ID: 9605556 98266593

TITLE:

The adrenergic, cholinergic and NANC nerve-mediated contractions of the female rabbit bladder neck and

proximal, medial and distal urethra.

AUTHOR:

Deplanne V; Palea S; Angel I

CORPORATE SOURCE:

Synthelabo Recherche, Department of Internal Medicine,

Rueil-Malmaison, France.

SOURCE:

BRITISH JOURNAL OF PHARMACOLOGY, (1998 Apr) 123 (8)

1517-24.

Journal codé: 7502536. ISSN: 0007-1188...

PUB. COUNTRY:

ENGLAND: United Kingdom

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199807

ENTRY DATE:

Entered STN: 19980716 Last Updated on STN: 19980716

Entered Medline: 19980707

### ABSTRACT:

1. The nerve-mediated contraction of the female rabbit bladder neck and different portions of the urethra (proximal, medial and distal) was studied in vitro by electrical stimulation (50 V, 30 Hz, 0.05 ms width, trains of 5 s every 5 min) by use of a superfusion system. 2. The amplitude (Emax) and the duration (Dmax) of the stimulated contraction were studied in the four tissues. The Emax value was significantly higher in distal urethra (2.07+/-0.15 g)compared to the bladder neck (1.08+/-0.10 g), proximal urethra (0.73+/-0.07 g) and medial urethra (0.87+/-0.07 g). In contrast, the Dmax value appeared slightly but significantly lower (P<0.05) in distal urethra  $(68.5 \pm 1.2.3 \pm 1.3)$  than in bladder neck (76.7+/-6.0 s), proximal urethra (84.5+/-5.0 s) and medial urethra (81.3+/-3.5~s). 3. Cocaine (1 microM) significantly increased the basal Emax values in medial and distal urethra and the basal Dmax values in the four tissues. 4. Prazosin (1 microM) significantly reduced E max value in proximal, medial and distal urethra and Dmax value in bladder neck and proximal urethra. Atropine (1 microM) also significantly reduced Emax values in bladder neck and proximal urethra and reduced Dmax value in bladder neck, but not in other tissues. Yohimbine (0.1 microM) was devoid of effect in the four tissues. 5. The association of prazosin (1 microM) and atropine (1 microM) did not modify the Emax and the Dmax values of the electrically-induced contractions, except in proximal urethra and in bladder neck where an additive inhibitory effect (on Emax only) was observed compared to prazosin and atropine alone. 6. The residual contractile response after combined treatment with prazosin and atropine was significantly diminished by tetrodotoxin (TTX; 1 microM) but not completely abolished. These NANC contractions were insensitive to P2X-purinoceptor desensitization by continuous tissue perfusion with alpha, beta-methylene ATP (30 microM). 7. These results demonstrate that bladder neck and proximal urethra are mainly innervated by the parasympathetic nervous system, whereas medial and distal urethras are to a greater extent under the control of the sympathetic innervation. The residual responses, insensitive to prazosin and atropine, may indicate a NANC innervation in the four tissues. However, the nature of the NANC neurotransmitter remains to be

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identified.

CONTROLLED TERM: Check Tags: Animal; Female; In Vitro

Adrenergic alpha-Antagonists: PD, pharmacology

Atropine: PD, pharmacology

\*Autonomic Nervous System: PH, physiology

Bladder: IR, innervation \*Bladder: PH, physiology Cocaine: PD, pharmacology

Electric Stimulation

Muscarinic Antagonists: PD, pharmacology

Muscle Contraction: PH, physiology \*Muscle, Smooth: PH, physiology Neurotransmitters: ME, metabolism

Parasympathetic Nervous System: PH, physiology

Prazosin: PD, pharmacology

Rabbits

Sympathetic Nervous System: PH, physiology

Urethra: IR, innervation
\*Urethra: PH, physiology

Vasoconstrictor Agents: PD, pharmacology

Yohimbine: PD, pharmacology

CAS REGISTRY NO.: 146-48-5 (Yohimbine); 19216-56-9 (Prazosin);

50-36-2 (Cocaine); 51-55-8 (Atropine)

CHEMICAL NAME: 0 (Adrenergic alpha-Antagonists); 0 (Muscarinic

Antagonists); 0 (Neurotransmitters); 0 (Vasoconstrictor

Agents)

L146 ANSWER 17 OF 35 MEDLINE

ACCESSION NUMBER: 97319457 MEDLINE

DOCUMENT NUMBER: 97319457 PubMed ID: 9176360

TITLE: Reflex pathways controlling urethral striated and smooth

muscle function in the male rat.

AUTHOR: Kakizaki H; Fraser M O; De Groat W C

CORPORATE SOURCE: Department of Pharmacology, University of Pittsburgh School

of Medicine, Pennsylvania 15261, USA.

CONTRACT NUMBER: DK-49430 (NIDDK)

SOURCE: AMERICAN JOURNAL OF PHYSIOLOGY, (1997 May) 272 (5 Pt 2)

R1647-56.

Journal code: 0370511. ISSN: 0002-9513.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT:

Priority Journals

ENTRY MONTH: ENTRY DATE:

199706 Entered STN: 19970716

Last Updated on STN: 19970716

Entered Medline: 19970627

## ABSTRACT:

The organization of vesicourethral reflex mechanisms in the male rat was studied by monitoring intraurethral pressure and the external urethral sphincter (EUS) electromyogram. EUS striated and urethral smooth muscle activities were elicited by reflex isovolumetric bladder contractions evoked by bladder filling or electrical stimulation of nerves in the bladder wall. Evoked EUS bursting activity in normal rats was eliminated in chronic spinal rats and replaced by tonic activity. Reflex urethral smooth muscle activity mediated by an increase in urethral pressure after paralysis of the EUS with alpha-bungarotoxin occurred in normal and chronic spinal rats. The response was significantly larger in chronic spinal (21.3 +/- 3.0 cmH2O) than in normal rats (4.2 +/- 0.7 cmH2O). NG-nitro-L-arginine methyl ester (a nitric oxide synthase inhibitor, 20 mg/kg i.v.) increased the smooth muscle response in normal (5.9 +/- 1.3 cmH2O) and chronic spinal rats (6.9 +/- 1.8 cmH2O). This increase in urethral pressure was not changed by sympathetic nerve transection or prazosin (0.2-0.3 mg/kg i.v.) but was abolished by hexamethonium and reduced

74-89% by atropine. These results indicate that coordinated EUS function (bursting activity) in the male rat is dependent on supraspinal pathways and that the urethral smooth muscle response during voiding is composed of a predominant cholinergic, atropine-sensitive contraction as well as a nitric oxide-mediated relaxation. Both are mediated by activation of parasympathetic pathways and are maintained or significantly larger after spinal cord injury, indicating that they are dependent on spinal reflex pathways. CONTROLLED TERM:

Check Tags: Animal; Female; Male; Support, U.S. Gov't,

P.H.S.

Adrenergic alpha-Antagonists: PD, pharmacology

Atropine: PD, pharmacology \*Bladder: PH, physiology

Denervation Electromyography Hydrostatic Pressure Muscarinic Antagonists

Muscle, Smooth: PH, physiology

NG-Nitroarginine Methyl Ester: PD, pharmacology Parasympathetic Nervous System: PH, physiology

Prazosin: PD, pharmacology

Rats Reflex Sex Factors

\*Urethra: PH, physiology

Urination

19216-56-9 (Prazosin); 50903-99-6 CAS REGISTRY NO .:

(NG-Nitroarginine Methyl Ester); 51-55-8 (Atropine)

CHEMICAL NAME:

0 (Adrenergic alpha-Antagonists); 0 (Muscarinic

Antagonists)

L146 ANSWER 18 OF 35

MEDLINE

ACCESSION NUMBER:

MEDLINE 96312683

DOCUMENT NUMBER:

PubMed ID: 8740024 96312683

TITLE:

Evidence of nonadrenergic, noncholinergic contraction in

rat urinary bladder by 1,1-dimethylphenylpiperazinium

stimulation in vivo.

AUTHOR:

SOURCE:

Tong Y C; Hung Y C; Cheng J T

CORPORATE SOURCE:

Department of Urology, National Cheng Kung University,

Medical College, Tainan, Taiwan/ROC. EUROPEAN UROLOGY, (1996) 29 (3) 362-5.

Journal code: 7512719. ISSN: 0302-2838.

PUB. COUNTRY:

Switzerland

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199610

ENTRY DATE:

Entered STN: 19961022

Last Updated on STN: 19961022 Entered Medline: 19961008

ABSTRACT:

Nonadrenergic, noncholinergic (NANC) contraction has been demonstrated in animal urinary bladder. However, the exact nature of the NANC innervation is still unclear. 1,1-Dimethylphenylpiperazinium (DMPP), which generates action potentials in the cell body of the postganglionic neuron and causes neurotransmitter release (both acetylcholine and noradrenaline), was given intravenously (0.1-0.7 mg/kg) to 3-month-old female Wistar rats under anesthesia (n = 20). Intravesical pressure, heart rate and blood pressure of the rats were monitored on Gould polygraph. Monophasic dose-dependent contractile response was observed upon administration of DMPP in 12 of 20 rats. After total adrenergic and cholinergic blockade with atropine, guanethidine, phentolamine and propranolol, the contractile response was reduced, not completely, in the animals. At the dose of 0.7 mg/kg, the contraction was reduced to about 48% of the original response. The study provides in vivo

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evidence for NANC contraction in the rat urinary bladder, moreover, the neurotransmitter is released from the postganglionic neurons. CONTROLLED TERM: Check Tags: Animal; Female; Support, Non-U.S. Gov't Action Potentials: DE, drug effects Adrenergic Agents: AD, administration & dosage Adrenergic Agents: PD, pharmacology Atropine: AD, administration & dosage Atropine: PD, pharmacology \*Bladder: DE, drug effects Dimethylphenylpiperazinium Iodide: AD, administration & dosage \*Dimethylphenylpiperazinium Iodide: PD, pharmacology Dose-Response Relationship, Drug Drug Interactions Ganglionic Stimulants: AD, administration & dosage \*Ganglionic Stimulants: PD, pharmacology Guanethidine: AD, administration & dosage Guanethidine: PD, pharmacology Injections, Intravenous Muscle Contraction: DE, drug effects \*Muscle, Smooth: DE, drug effects Neurons: CY, cytology Neurons: DE, drug effects Nicotinic Agonists: AD, administration & dosage \*Nicotinic Agonists: PD, pharmacology Phentolamine: AD, administration & dosage Phentolamine: PD, pharmacology Propranolol: AD, administration & dosage Propranolol: PD, pharmacology Rats Rats, Wistar Synaptic Transmission: DE, drug effects 50-60-2 (Phentolamine); 51-55-8 (Atropine); 525-66-6 CAS REGISTRY NO.: (Propranolol); 54-77-3 (Dimethylphenylpiperazinium Iodide); 55-65-2 (Guanethidine) CHEMICAL NAME: 0 (Adrenergic Agents); 0 (Ganglionic Stimulants); 0 (Nicotinic Agonists) L146 ANSWER 19 OF 35 MEDLINE 96162560 ACCESSION NUMBER: MEDLINE 96162560 PubMed ID: 8583354 DOCUMENT NUMBER: Analysis of the mechanisms underlying the contractile TITLE: response induced by the hydroalcoholic extract of Phyllanthus urinaria in the guinea-pig urinary bladder in-vitro. Dias M A; Campos A H; Cechinel Filho V; Yunes R A; Calixto AUTHOR: Department of Pharmacology, Universidade Federal de Santa Catarina, Florianopolis SC, Brazil. CORPORATE SOURCE: SOURCE: JOURNAL OF PHARMACY AND PHARMACOLOGY, (1995 Oct) 47 (10) 846-51. Journal code: 0376363. ISSN: 0022-3573. PUB. COUNTRY: ENGLAND: United Kingdom DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English FILE SEGMENT: Priority Journals ENTRY MONTH: 199603 ENTRY DATE: Entered STN: 19960327 Last Updated on STN: 19980206

### ABSTRACT:

The hydroalcoholic extract of Phyllanthus urinaria (Euphorbiaceae), substance P and substance P methyl ester all caused graded contractions in the guinea-pig

Entered Medline: 19960315

urinary bladder. Responses to hydroalcoholic extract and substance P were markedly inhibited in calcium-free Krebs solution, this effect being reversed by reintroduction of calcium in the medium. The contraction in response to hydroalcoholic extract was unaffected by atropine, propranolol, prazosin, yohimbine, tetrodotoxin, w-conotoxin, nicardipine, HOE 140, guanethidine, staurosporine, phorbol ester or indomethacin, excluding the involvement of nervous mediated responses, or action via cholinergic, adrenergic, kinins, cyclo-oxygenase metabolites, protein kinase C or activation of L or N-type calcium channels. The selective NK1 tachykinin antagonist (FK 888), but not NK2 (SR 48968) antagonized substance P-induced contraction, but both drugs failed to effect Phyllanthus urinaria-induced contraction. Prolonged desensitization of guinea pig urinary bladder with capsaicin (10 microM) or preincubation of guinea-pig urinary bladder with capsazepine did not affect contraction caused by hydroalcoholic extract. Ruthenium red almost completely abolished capsaicin-induced contraction, but had no effect on hydroalcoholic extract-mediated contraction. Substance P and the hydroalcoholic extract caused marked potentiation of the twitch response in the preparations field stimulated. The facilitatory effect of substance P, but not that of hydroalcoholic extract, was prevented by the NK1 (FK 888), but not by NK2 (SR 48968) antagonist. We concluded that contraction induced by hydroalcoholic extract of Phyllanthus urinaria in the guinea pig urinary bladder involves direct action on smooth muscle and relies on the mobilization of extracellular calcium influx unrelated to activation of L- and N-type calcium channels or activation of protein kinase C mechanisms. In addition contraction caused by the hydroalcoholic extract of Phyllanthus urinaria in guinea-pig urinary bladder does not involve the activation of tachykinin or vanilloid receptors. Check Tags: Animal; Female; In Vitro; Male; Support, CONTROLLED TERM: Non-U.S. Gov't

Adrenergic alpha-Antagonists: PD, pharmacology

Adrenergic beta-Antagonists: PD, pharmacology

Benzamides: PD, pharmacology \*Bladder: DE, drug effects Bladder: PH, physiology Dipeptides: PD, pharmacology

Ethanol: CH, chemistry

Guinea Pigs

Indoles: PD, pharmacology Ion Channels: DE, drug effects

Muscarinic Antagonists: PD, pharmacology

\*Muscle Contraction: DE, drug effects Muscle, Smooth: DE, drug effects

Muscle, Smooth: PH, physiology Neurokinin A: AI, antagonists & inhibitors

Piperidines: PD, pharmacology \*Plant Extracts: PD, pharmacology

Plants, Medicinal

Receptors, Tachykinin: AI, antagonists & inhibitors

Substance P: AI, antagonists & inhibitors

Substance P: PD, pharmacology

138449-07-7 (FK 888); 142001-63-6 (SR 48968); 33507-63-0 (Substance P); 64-17-5 (Ethanol); 86933-74-6 (Neurokinin A) CAS REGISTRY NO.:

0 (Adrenergic alpha-Antagonists); 0 (Adrenergic CHEMICAL NAME:

beta-Antagonists); 0 (Benzamides); 0 (Dipeptides); 0 (Indoles); 0 (Ion Channels); 0 (Muscarinic Antagonists); 0

(Piperidines); 0 (Plant Extracts); 0 (Receptors,

Tachykinin)

L146 ANSWER 20 OF 35 MEDLINE

MEDLINE ACCESSION NUMBER: 93247154

PubMed ID: 8387116 93247154

DOCUMENT NUMBER: Control of detrusor stiffness in the chronic decentralized TITLE:

feline bladder.

Skehan A M; Downie J W; Awad S A AUTHOR:

Jones 09/778290 Page 67

CORPORATE SOURCE: Department of Urology, Dalhousie University, Halifax, Nova

Scotia, Canada.

SOURCE: JOURNAL OF UROLOGY, (1993 May) 149 (5) 1165-73.

Journal code: 0376374. ISSN: 0022-5347.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199305

ENTRY DATE: Entered STN: 19930618

Last Updated on STN: 19930618 Entered Medline: 19930528

### ABSTRACT:

The neuropharmacology of increased bladder stiffness, which may contribute to upper tract damage and incontinence, was investigated in 76 cats. beta-blockade increased but combined alpha 1-adrenergic with muscarinic blockade decreased filling phase stiffness in normal cats. Bladder wall stiffness during the early filling phase was unaffected by chronic S2 ventrodorsal rhizotomy or L7-S3 ventral rhizotomy, but was decreased when L7-S3 dorsal rhizotomy or total sympathectomy was combined with the ventral root lesion, implying that sacral dorsal roots and sympathetic efferents maintain normal detrusor stiffness. Acute sympathectomy increased stiffness in all the former 3 chronic groups, implying that a tonic or reflex sympathetic inhibition operates independently of the L7-S3 dorsal roots. Stiffness during early filling phase decreased with acute ventral rhizotomy. This change persisted with chronic sympathectomy but returned to normal if sympathetic nerves were left intact. These results suggest that bladder stiffness is modulated by tonic or reflexic sympathetic activity, which is influenced by L7-S3 afferents. Detrusor stiffness during the later stages of filling, which was decreased by acute sympathectomy in chronic groups but increased by chronic sympathectomy, was reduced by interference with adrenergic or muscarinic mechanisms after either lesion. Therefore, a peripheral pathway with facilitatory alpha 1-adrenergic and muscarinic receptors is involved in the production of increased late stage stiffness after chronic sympathetic damage. We propose that the increased bladder stiffness seen in congenital sacral lesions may be analogous to the stiffness during late stages of filling reported here. Our results also imply that the presence of this increased stiffness is closely associated with chronic sympathetic damage. Whether the increased stiffness in congenital and traumatic neural lesions in humans arises from sympathetic damage remains to be determined.

CONTROLLED TERM: Check Tags: Animal; Male; Support, Non-U.S. Gov't

Atropine: PD, pharmacology
Bladder: IR, innervation
\*Bladder: PH, physiology

Cats

\*Denervation

Muscarinic Antagonists
Prazosin: PD, pharmacology

Receptors, Adrenergic, alpha: PH, physiology

Receptors, Muscarinic: PH, physiology

Spinal Nerve Roots: SU, surgery

Sympathectomy \*Urodynamics

Urodynamics: DE, drug effects

CAS REGISTRY NO.: 19216-56-9 (Prazosin); 51-55-8 (Atropine)

CHEMICAL NAME: 0 (Muscarinic Antagonists); 0 (Receptors, Adrenergic,

alpha); 0 (Receptors, Muscarinic)

L146 ANSWER 21 OF 35 MEDLINE

ACCESSION NUMBER: 91192889 MEDLINE

DOCUMENT NUMBER: 91192889 PubMed ID: 1672862

TITLE: DuP 753 is a specific antagonist for the angiotensin

receptor.

AUTHOR:

Rhaleb N E; Rouissi N; Nantel F; D'Orleans-Juste P; Regoli

CORPORATE SOURCE:

Department of Pharmacology, Medical School University of

Sherbrooke, Quebec, Canada.

SOURCE:

HYPERTENSION, (1991 Apr) 17 (4) 480-4. Journal code: 7906255. ISSN: 0194-911X.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199105 Entered STN: 19910602

ENTRY DATE:

Last Updated on STN: 19980206

Entered Medline: 19910513

### ABSTRACT:

2-n-Butyl-4-chloro-5-hydroxy-methyl-1-[(2'-(1H)-tetrazol-5-yl)biph enyl-4yl)methyl]imidazol potassium salt (DuP 753) is a nonpeptide angiotensin II receptor antagonist that inhibits the contractile effects of angiotensin II competitively and shows pA2 values of 8.27 on the rabbit aorta and jugular vein, 8.66 on the rat portal vein and stomach, 8.19 on the rat urinary bladder, and 8.36 on human colon, ileum, and urinary bladder. This agent (more than 10(-5) M) exhibits no agonistic activity and does not affect the contractile effects of norepinephrine, acetylcholine, bradykinin, desArg9-bradykinin, substance P, neurokinin A, neurokinin B, or bombesin in the various tissues. The present results demonstrate that DuP 753 is a potent nonpeptide antagonist with high affinity, specificity, and selectivity for the angiotensin receptor. Check Tags: Animal; Human; In Vitro; Male; Support, CONTROLLED TERM:

Non-U.S. Gov't

# Adrenergic alpha-Antagonists: AI, antagonists & inhibitors

Adult

\*Angiotensin II: AI, antagonists & inhibitors

Bladder: DE, drug effects

Blood Vessels: DE, drug effects Digestive System: DE, drug effects

Imidazoles: AI, antagonists & inhibitors

\*Imidazoles: PD, pharmacology

Kinetics

Kinins: PD, pharmacology

Losartan

# Muscarinic Antagonists

Rabbits Rats

Rats, Inbred Strains

\*Receptors, Angiotensin: AI, antagonists & inhibitors

Tetrazoles: AI, antagonists & inhibitors

\*Tetrazoles: PD, pharmacology

CAS REGISTRY NO .: CHEMICAL NAME:

11128-99-7 (Angiotensin II); 114798-26-4 (Losartan) 0 (Adrenergic alpha-Antagonists); 0 (Imidazoles); 0 (Kinins); 0 (Muscarinic Antagonists); 0 (Receptors,

Angiotensin); 0 (Tetrazoles)

L146 ANSWER 22 OF 35

ACCESSION NUMBER: 83111481

MEDLINE MEDLINE

DOCUMENT NUMBER:

PubMed ID: 6296355 83111481

TITLE:

Characterization of the effect of quinidine on Na transport

by the toad and turtle bladders.

AUTHOR:

Arruda J A

CONTRACT NUMBER:

AM20170 (NIADDK)

SOURCE:

JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS,

(1983 Feb) 224 (2) 297-301.

Journal code: 0376362. ISSN: 0022-3565.

PUB. COUNTRY:

United States

Jones 09/778290 Page 69

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198303

ENTRY DATE:

Entered STN: 19900318

Last Updated on STN: 19970203 Entered Medline: 19830317

ABSTRACT:

Quinidine inhibits Na transport by the toad and turtle bladder. This effect of quinidine is thought to be mediated by an increase in cytosolic calcium. In the present study, we characterized the effect of quinidine on Na transport by the toad and turtle bladders. Quinidine induced a release of calcium by turtle liver mitochondria. Quinidine inhibited Na transport by increasing the resistance of the active pathway to Na transport without affecting the electromotive force. Amphotericin B addition to the mucosal solution partially reversed the inhibitory effect of quinidine on Na transport, thus suggesting that quinidine decreases Na transport by decreasing the permeability of luminal membrane to Na. The effect of amiloride was unaltered in the presence of quinidine. Vasopressin failed to stimulate Na transport in the presence of quinidine, suggesting that the drug interferes with the natriferetic effect in addition to interfering with the hydrosmotic effect. The effect of quinidine was not prevented by inhibition of cyclooxygenase system or mitochondrial inhibition; thus suggesting that alterations in prostaglandin release or mitochondrial function are not involved in the inhibition of Na transport by quinidine.

CONTROLLED TERM:

Check Tags: Animal; Support, Non-U.S. Gov't; Support, U.S.

Gov't, Non-P.H.S.; Support, U.S. Gov't, P.H.S.

Amiloride: PD, pharmacology
Amphotericin B: PD, pharmacology
\*Bladder: DE, drug effects

Bufo marinus

Calcium: ME, metabolism
Drug Interactions

\*Ion Channels: DE, drug effects

Mitochondria, Liver: DE, drug effects

\*Quinidine: PD, pharmacology

\*Sodium: ME, metabolism

Turtles

CAS REGISTRY NO.: 1397-89-3 (Amphotericin B); 2609-46-3 (Amiloride); 56-54-2

(Quinidine); 7440-23-5 (Sodium); 7440-70-2 (Calcium)

CHEMICAL NAME: 0 (Ion Channels)

L146 ANSWER 23 OF 35 MEDLINE

ACCESSION NUMBER: 80216390 MEDLINE

DOCUMENT NUMBER: 80216390 PubMed ID: 575741

TITLE: [Action of some drugs on pressure profile of female urethra

(author's transl)].
Wirkung einiger Pharmaka auf das weibliche

Urethradruckprofil.

AUTHOR: Methfessel H D; Methfessel G

SOURCE: ZENTRALBLATT FUR GYNAKOLOGIE, (1979) 101 (22) 1453-62.

Journal code: 21820100R. ISSN: 0044-4197.

PUB. COUNTRY: GERMANY, EAST: German Democratic Republic

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: German

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198008

ENTRY DATE: Entered STN: 19900315

Last Updated on STN: 19900315 Entered Medline: 19800828

ABSTRACT:

The action of certain drugs upon the urethra of clinically intact women was studied by measurement of the urethral profile. beta-adrenoreceptor stimulating

Jones 09/778290 Page 70

and blocking agents, such as fenoterol, propanolol, as well as cholinergics, including carbachol and pyridostigmine, failed to exercise any effect on the urethral pressure profile. On the other hand, anticholinergics, such as atropine and N-butylscopolammonium-bromide, diazepam, and chlorpromazine, produced significant decrease in both maximum urethral pressure and maximum urethral closure pressure. N-butylscopolammonium-bromide and chlorpromazine also shortened the functional length of urethra. Drop of all parameters relating to the urethral pressure profile was observed to take place in response to application of succinylcholine. Phentolamine, an alpha-adrenoreceptor blocking agent, then was administered and caused further reduction of those parameters. The pressure values were elevated by ketamine. The above findings are discussed and compared to present concepts published in literature on medicamentous control of urethral function.

CONTROLLED TERM: Check Tags: Female; Human; Male

> Adolescent Adult

Butylscopolammonium Bromide: PD, pharmacology

Chlorpromazine: PD, pharmacology

Diazepam: PD, pharmacology

Drug Synergism English Abstract

Ketamine: PD, pharmacology

Parasympatholytics: PD, pharmacology Phentolamine: PD, pharmacology

Pressure

Succinylcholine: PD, pharmacology

\*Urethra: DE, drug effects

CAS REGISTRY NO.: 149-64-4 (Butylscopolammonium Bromide); 306-40-1

(Succinylcholine); 439-14-5 (Diazepam); 50-53-3 (Chlorpromazine); 50-60-2 (Phentolamine); 6740-88-1

(Ketamine)

CHEMICAL NAME: 0 (Parasympatholytics)

L146 ANSWER 24 OF 35 MEDLINE

ACCESSION NUMBER: 76014373 MEDITNE

DOCUMENT NUMBER: 76014373 PubMed ID: 1167189

TITLE: Effects of phenoxybenzamine hydrochloride on canine lower

urinary tract: clinical implications.

AUTHOR: Khanna O P; Gonick P

SOURCE: UROLOGY, (1975 Sep) 6 (3) 323-30.

Journal code: 0366151. ISSN: 0090-4295.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197511

ENTRY DATE: Entered STN: 19900313

> Last Updated on STN: 19900313 Entered Medline: 19751120

ABSTRACT:

The results of our study show that phenoxybenzamine hydrochloride, a potent long-acting alpha-adrenergic blocker, has clearly demonstrable effects on urethral function. In a dose of 0.5 mg. per kilogram of body weight it caused a significant lowering of the resting urethral pressure, a decrease in the arterial pressure, and no change in the intravesical pressure. Higher doses caused similar but more pronounced and prolonged effects. The combined use of phenoxybenzamine and bethanechol increased the intravesical pressure and decreased the urethral pressure. It appears that the predominant mechanism of urethral resistance is alpha-adrenergic activity in smooth muscle. A review of the medical literature, our experimental studies, and limited clinical application lead uo to conclude that phenoxybenzamine could be useful in treating neurogenic vesical dysfunction of various types, urethral syndrome, urgency incontinence, functional outlet obstruction with or without

vesicoureteral reflux, drug-related obstructive urinary symptoms, partial prostatic obstruction, and ureteral colic. The combination of phenoxybenzamine and bethanechol could be used in managing patients with atony of the bladder of neuropathic or myopathic origin.

CONTROLLED TERM: Check Tags: Animal; Female; Human; Male

Adult

Atropine: PD, pharmacology

Bethanechol Compounds: PD, pharmacology Bethanechol Compounds: TU, therapeutic use

\*Bladder: DE, drug effects

Bladder, Neurogenic: DT, drug therapy Blood Pressure: DE, drug effects

Dogs

Drug Interactions

Drug Therapy, Combination

Middle Age

Phenoxybenzamine: AD, administration & dosage

\*Phenoxybenzamine: PD, pharmacology Phenoxybenzamine: TU, therapeutic use

Pressure

\*Urethra: DE, drug effects Urethra: PH, physiology

Urethral Diseases: DT, drug therapy

Urinary Incontinence, Stress: DT, drug therapy 51-55-8 (Atropine); 59-96-1 (Phenoxybenzamine)

CHEMICAL NAME: 0 (

CAS REGISTRY NO.:

0 (Bethanechol Compounds)

L146 ANSWER 25 OF 35 MEDLINE

ACCESSION NUMBER: 72051037 MEDLINE

DOCUMENT NUMBER: 72051037 PubMed ID: 4107866

TITLE: The reac

The reactivity of isolated urinary bladder strips of the

guinea-pig towards electric stimulation.

AUTHOR:

De Sy W

SOURCE:

ARCHIVES INTERNATIONALES DE PHYSIOLOGIE ET DE BICCHIMIE,

(1971 Aug) 79 (3) 459-68.

Journal code: 0405355. ISSN: 0003-9799.

PUB. COUNTRY:

Belgium

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

197202

ENTRY DATE:

Entered STN: 19900310

Last Updated on STN: 19900310 Entered Medline: 19720202

CONTROLLED TERM:,

Check Tags: Animal; Female; In Vitro; Male Acetylcholine: AI, antagonists & inhibitors

Atropine: PD, pharmacology Bladder: DE, drug effects \*Bladder: PH, physiology

Depression, Chemical
Drug Antagonism
\*Electric Stimulation

Guinea Pigs

Isoproterenol: PD, pharmacology

Methonium Compounds: PD, pharmacology Muscle, Smooth: PH, physiology

Norepinephrine: PD, pharmacology
Phentolamine: PD, pharmacology
Propranolol: PD, pharmacology

Receptors, Adrenergic Stimulation, Chemical

CAS REGISTRY NO.:

50-60-2 (Phentolamine); 51-41-2 (Norepinephrine); 51-55-8

(Atropine); 51-84-3 (Acetylcholine); 525-66-6

Page 72

(Propranolol); 7683-59-2 (Isoproterenol)

0 (Methonium Compounds); 0 (Receptors, Adrenergic) CHEMICAL NAME:

Jones

L146 ANSWER 26 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

2002437700 EMBASE ACCESSION NUMBER:

Female stress and urge incontinence in family practice: TITLÉ:

Insight into the lower urinary tract.

Viktrup L. AUTHOR:

Dr. L. Viktrup, Eli Lilly and Company, Faris II, Drop Code CORPORATE SOURCE:

6112, Indianapolis, IN 46285, Denmark

International Journal of Clinical Practice, (2002) 56/9 SOURCE:

> (694-700). Refs: 84

United Kingdom

ISSN: 1368-5031 CODEN: IJCPF

COUNTRY:

Journal; General Review DOCUMENT TYPE:

General Pathology and Pathological Anatomy FILE SEGMENT: 005

Obstetrics and Gynecology 010

Public Health, Social Medicine and Epidemiology 017

Urology and Nephrology 028 037 Drug Literature Index Adverse Reactions Titles 038

English LANGUAGE: English SUMMARY LANGUAGE:

ABSTRACT:

As many as 25% of all women are affected by urinary incontinence, but only a few are treated. This frequent, often medically unrecognised, condition occurs in women of all ages. The continence mechanism is based on bladder detrusor control, intact anatomical structures in and around the urethra, correct positioning of the bladder neck and a comprehensive innervation of the lower urinary tract. Age and childbearing are established risk factors for the development of urinary incontinence, but other factors are currently suggested. The evaluation of urinary incontinence should include history, gynaecological examination, urine test, frequency-volume diary and a pad-weighing test. Female urinary incontinence can be treated in general practice by simple means, e.g. pelvic floor muscle training, bladder training, electrostimulation, drug therapy, or a combination of these approaches. This review updates the knowledge of the continence mechanism and summarises the epidemiology, risk factors, assessment and treatment of urinary incontinence in general practice.

Medical Descriptors: CONTROLLED TERM:

\*stress incontinence: DI, diagnosis \*stress incontinence: DT, drug therapy \*stress incontinence: EP, epidemiology \*stress incontinence: ET, etiology \*stress incontinence: SI, side effect \*stress incontinence: SU, surgery \*stress incontinence: TH, therapy \*urge incontinence: DI, diagnosis \*urge incontinence: DT, drug therapy \*urge incontinence: EP, epidemiology \*urge incontinence: ET, etiology \*urge incontinence: SI, side effect \*urge incontinence: SU, surgery \*urge incontinence: TH, therapy

general practice

urethra

detrusor muscle bladder neck innervation age pregnancy risk factor

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anamnesis
gynecological examination
urinalysis
urinary frequency
urine volume
diagnostic test
pelvis floor
muscle training
electrostimulation therapy
medical assessment
central nervous system function
peripheral nervous system function
autonomic nervous system function
  micturition
delivery
menopause
obesity
constipation
pelvic disease
pelvis surgery
neurologic disease
chronic obstructive lung disease
functional disease
human
female
controlled study
review
priority journal
Drug Descriptors:
  alpha adrenergic receptor blocking agent: AE, adverse
drug reaction
diuretic agent: AE, adverse drug reaction
estrogen: DT, drug therapy
cholinergic receptor blocking agent: AE, adverse drug
reaction
cholinergic receptor blocking agent: DT, drug therapy
  serotonin uptake inhibitor: CB, drug combination
serotonin uptake inhibitor: DT, drug therapy
serotonin uptake inhibitor: PD, pharmacology
  noradrenalin uptake inhibitor: CB, drug combination
noradrenalin uptake inhibitor: DT, drug therapy
noradrenalin uptake inhibitor: PD, pharmacology
  tolterodine: AE, adverse drug reaction
  tolterodine: DT, drug therapy
propantheline bromide: AE, adverse drug reaction
propantheline bromide: DT, drug therapy
  darifenacin: AE, adverse drug reaction
  darifenacin: DT, drug therapy
  oxybutynin: AE, adverse drug reaction
  oxybutynin: DT, drug therapy
tricyclic antidepressant agent: AE, adverse drug reaction
tricyclic antidepressant agent: DT, drug therapy
imipramine: AE, adverse drug reaction
imipramine: DT, drug therapy
duloxetine: DT, drug therapy
duloxetine: PD, pharmacology
placebo
(tolterodine) 124937-51-5; (propantheline
bromide) 298-50-0, 50-34-0; (darifenacin)
133099-04-4, 133099-07-7; (oxybutynin)
1508-65-2, 5633-20-5; (imipramine)
113-52-0, 50-49-7; (duloxetine) 116539-59-4, 136434-34-9
```

CAS REGISTRY NO.:

Page 74

L146 ANSWER 27 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

2003149857 EMBASE ACCESSION NUMBER:

Management of incontinence in the elderly. TITLE:

Reznicek S.B. AUTHOR:

S.B. Reznicek, 1011 Sunnyside Dr., Cadillac, MI 49601, CORPORATE SOURCE:

United States. rez@netonecom.net

Journal of Gender-Specific Medicine, (2002) 5/5 (43-48). SOURCE:

Refs: 7

ISSN: 1523-7036 CODEN: JGMOA7

United States COUNTRY:

Journal; General Review DOCUMENT TYPE: Microbiology FILE SEGMENT: 004

Gerontology and Geriatrics 020 Urology and Nephrology 028 Pharmacology 030 Drug Literature Index 037

Adverse Reactions Titles 038 English LANGUAGE: English

SUMMARY LANGUAGE:

Urinary incontinence in the elderly will continue to grow as a health and ABSTRACT: lifestyle issue as this population expands. Additionally, as older Americans seek to remain active in their careers and recreational pursuits, they are likely to be more intensive in seeking consultation for this condition. Evaluation of incontinence has become simpler and more focused to allow for an earlier and more precise diagnosis, which in turn expedites therapy. In the past, surgery was often thought of as the sole modality, which likely prevented larger numbers of patients from seeking relief. Today, more conservative treatments tend to bring more patient referrals to physicians' offices. Incontinence affects 15-30% of older patients living at home, one-third of those in acute care hospitals, and half of those in nursing homes. It is responsible in part for up to half of all nursing home admissions. Because of the diagnostic and therapeutic variability between men and women, a gender-specific discussion is called for. Catheter care is sufficiently challenging so as to merit a specific tutorial.

Medical Descriptors: CONTROLLED TERM:

\*urine incontinence: DI, diagnosis \*urine incontinence: DT, drug therapy \*urine incontinence: ET, etiology \*urine incontinence: SU, surgery \*urine incontinence: TH, therapy

aged

career

daily life activity

recreation diagnostic accuracy conservative treatment patient referral

primary medical care nursing home sex difference catheterization pathophysiology

stress incontinence: DT, drug therapy stress incontinence: SI, side effect stress incontinence: TH, therapy urine retention: SI, side effect

kinesiotherapy

xerostomia: SI, side effect confusion: SI, side effect drowsiness: SI, side effect

central nervous system disease: SI, side effect

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urethra surgery
  prostate hypertrophy: DT, drug therapy
skin disease: CO, complication
skin disease: TH, therapy
antiinflammatory activity
antifungal activity
dermatitis: CO, complication
dormatitis: DT, drug therapy
dermatitis: PC, prevention
bladder spasm: DT, drug therapy
urinary tract infection: CO, complication
urinary tract infection: DT, drug therapy
urinary tract infection: PC, prevention
human
review
Drug Descriptors:
diuretic agent
neuroleptic agent
antidepressant agent
antiparkinson agent
  alpha adrenergic receptor blocking agent: AE, adverse
drug reaction
dipeptidyl carboxypeptidase inhibitor: AE, adverse drug
reaction
narcotic agent: AE, adverse drug reaction
alcohol: TO, drug toxicity
sedative agent: AE, adverse drug reaction
estrogen: DT, drug therapy
cholinergic receptor blocking agent: AE, adverse drug
reaction
cholinergic receptor blocking agent: DO, drug dose
cholinergic receptor blocking agent: DT, drug therapy
collagen: DT, drug therapy
collagen: UR, intraurethral drug administration
  oxybutynin: DO, drug dose
  oxybutynin: DT, drug therapy
  tolterodine: DO, drug dose
  tolterodine: DT, drug therapy
hyoscyamine: DO, drug dose
hyoscyamine: DT, drug therapy
propantheline bromide: DO, drug dose
propantheline bromide: DT, drug therapy
tamsulosin: DO, drug dose
tamsulosin: DT, drug therapy
  terazosin: DO, drug dose
  terazosin: DT, drug therapy
  doxazosin: DO, drug dose
  doxazosin: DT, drug therapy
 prazosin: DO, drug dose
 prazosin: DT, drug therapy
 nystatin: CB, drug combination
nystatin: PD, pharmacology
  triamcinolone acetonide: CB, drug combination
triamcinolone acetonide: PD, pharmacology
ascorbic acid: DO, drug dose
ascorbic acid: PO, oral drug administration
acetic acid: DT, drug therapy
nitrofurantoin: DT, drug therapy
quinoline derived antiinfective agent: DT, drug therapy
gentamicin: DO, drug dose
gentamicin: DT, drug therapy
sodium chloride
antibiotic agent: DT, drug therapy
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CAS REGISTRY NO .:
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unindexed drug
(alcohol) 64-\overline{1}7-5; (collagen) 9007-34-5; (oxybutynin)
1508-65-2, 5633-20-5; (tolterodine)
124937-51-5; (hyoscyamine) 101-31-5, 306-03-6;
(propantheline bromide) 298-50-0, 50-34-0; (tamsulosin)
106133-20-4, 106138-88-9, 106463-17-6, 80223-99-0,
94666-07-6; (terazosin) 63074-08-8,
63590-64-7; (doxazosin) 74191-85-8;
(prazosin) 19216-56-9, 19237-84-4;
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(nystatin) 1400-61-9, 34786-70-4, 62997-67-5; (triamcinolone acetonide) 76-25-5; (ascorbic acid) 134-03-2, 15421-15-5, 50-81-7; (acetic acid) 127-08-2, 127-09-3, 64-19-7, 71-50-1; (nitrofurantoin) 54-87-5, 67-20-9; (gentamicin) 1392-48-9, 1403-66-3, 1405-41-0; (sodium chloride) 7647-14-5

L146 ANSWER 28 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

2001133800 EMBASE

TITLE:

Effect of temperature on guinea pig urinary bladder

contraction mediated via P2X-receptors.

AUTHOR:

Ziganshin A.U.; Rychkov A.V.; Ziganshina L.E.

A.U. Ziganshin, Department of Pharmacology, Kazan State

CORPORATE SOURCE:

Medical University, Kazan, Russian Federation

SOURCE:

Bulletin of Experimental Biology and Medicine, (2001)

130/10 (961-963).

Refs: 14

ISSN: 0007-4888 CODEN: BEXBAN

COUNTRY:

DOCUMENT TYPE:

United States Journal; Article

FILE SEGMENT:

Clinical Biochemistry 029 Drug Literature Index

037 Pharmacology 030

Physiology

002 Urology and Nephrology 028

LANGUAGE:

SUMMARY LANGUAGE:

English English

ABSTRACT:

In vitro experiments showed that P2X-receptor agonist .alpha.,.beta.-methylene-ATP and electrical field stimulation in the presence of muscarinic and .alpha.-adrenoreceptors blockers induced contractile responses of isolated guinea pig bladder, which were more pronounced at 30.degree.C than at 37.degree.C or 42.degree.C. P2X-receptor antagonist pyridoxal-6-phosphate-2',4'disulfonic acid, produced a more potent inhibitory effect on contractions induced by electrical field stimulation at 30.degree.C in comparison with that at 37.degree.C or 42.degree.C, while the contractions induced by .alpha.,.beta.-methylene-ATP were similarly suppressed at all examined temperatures.

CONTROLLED TERM:

Medical Descriptors: \*temperature dependence \*bladder contraction nonhuman animal tissue animal experiment quinea pig in vitro study electrostimulation drug inhibition drug potency drug effect bladder article Drug Descriptors:

\*purine P2X receptor: EC, endogenous compound purinergic receptor stimulating agent: PD, pharmacology purinergic receptor stimulating agent: CM, drug comparison alpha, beta methyleneadenosine triphosphate: PD, pharmacology alpha, beta methyleneadenosine triphosphate: CM, drug comparison muscarinic receptor blocking agent: PD, pharmacology alpha adrenergic receptor blocking agent: PD, pharmacology purinergic receptor blocking agent: PD, pharmacology purinergic receptor blocking agent: CM, drug comparison pyridoxal phosphate 6 azophenyl 2',4' disulfonic acid: PD, pharmacology pyridoxal phosphate 6 azophenyl 2',4' disulfonic acid: CM, drug comparison atropine: PD, pharmacology phentolamine: PD, pharmacology (alpha, beta methyleneadenosine triphosphate) 7292-42-4; (pyridoxal phosphate 6 azophenyl 2',4' disulfonic acid) 149017-66-3; (atropine) 51-55-8, 55-48-1; (phentolamine) 50-60-2, 73-05-2 L146 ANSWER 29 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. 97020195 EMBASE 1997020195 [Drugs for micturition disorders in the elderly]. MEDIKAMENTE BEI MIKTIONSSTORUNGEN IM ALTER. Schultz-Lampel D.; Thuroff J.W. Dr. D. Schultz-Lampel, Klinik fur Urologie/Kinderurologie, Klinikum Wuppertal GmbH, Universitat Witten/Herdekke, Heusnerstrasse 40, D-42283 Wuppertal, Germany Urologe - Ausgabe B, (1996) 36/6 (444-448). Refs: 18 ISSN: 0042-1111 CODEN: URLBBQ Germany Journal; (Short Survey) 020 Gerontology and Geriatrics 028 Urology and Nephrology 037 Drug Literature Index 038 Adverse Reactions Titles German German Medical Descriptors: \*micturition disorder: DT, drug therapy \*stress incontinence: DT, drug therapy constipation: SI, side effect hallucination: SI, side effect muscle cramp: SI, side effect mydriasis: SI, side effect nausea: SI, side effect senescence short survey tachycardia: SI, side effect xerostomia: SI, side effect Drug Descriptors: beta 2 adrenergic receptor stimulating agent: DT, drug therapy

CAS REGISTRY NO.:

ACCESSION NUMBER:

CORPORATE SOURCE:

DOCUMENT NUMBER:

TITLE:

AUTHOR:

SOURCE:

COUNTRY:

LANGUAGE:

DOCUMENT TYPE:

SUMMARY LANGUAGE:

CONTROLLED TERM:

FILE SEGMENT:

bethanechol: DT, drug therapy carbachol: DT, drug therapy

CAS REGISTRY NO.:

CHEMICAL NAME:

DOCUMENT NUMBER:

TITLE:

AUTHOR:

SOURCE:

COUNTRY:

DOCUMENT TYPE:

```
cholinergic receptor blocking agent: DT, drug therapy
                    cholinergic receptor blocking agent: AE, adverse drug
                    reaction
                    clenbuterol: DT, drug therapy
                    diclofenac: DT, drug therapy
                    distigmine: DT, drug therapy
                    distigmine bromide
                    emepronium: DT, drug therapy
                    emepronium bromide
                    estriol: DT, drug therapy
                    estrogen: DT, drug therapy
                      estrogen: CB, drug combination
                    flavoxate: DT, drug therapy
                    flurbiprofen: DT, drug therapy
                    qestagen: DT, drug therapy
                      gestagen: CB, drug combination
                    imipramine: DT, drug therapy
                    indometacin: DT, drug therapy
                    isoprenaline: DT, drug therapy
                       oxybutynin: DT, drug therapy
                    propantheline bromide: DT, drug therapy
                    propiverine: DT, drug therapy
                    prostaglandin synthase inhibitor: DT, drug therapy
                     salbutamol: DT, drug therapy
                     spasmolytic agent: DT, drug therapy
                       terazosin
                     terbutaline: DT, drug therapy
                     tricyclic antidepressant agent: DT, drug therapy
                     trospium chloride
                     unindexed drug
                     (bethanechol) 590-63-6, 674-38-4, 91609-06-2; (carbachol) 462-58-8, 51-83-2; (clenbuterol) 21898-19-1, 37148-27-9;
                     (diclofenac) 15307-79-6, 15307-86-5; (distigmine)
                     17299-00-2; (distigmine bromide) 15876-67-2; (emepronium)
                     27892-33-7; (emepronium bromide) 3614-30-0; (estriol)
                     50-27-1; (flavoxate) 15301-69-6, 3717-88-2; (flurbiprofen) 5104-49-4; (imipramine) 113-52-0, 50-49-7; (indometacin)
                     53-86-1, 74252-25-8, 7681-54-1; (isoprenaline) 299-95-6, 51-30-9, 6700-39-6, 7683-59-2; (oxybutynin)
                     1508-65-2, 5633-20-5; (propantheline
                     bromide) 298-50-0, 50-34-0; (propiverine) 60569-19-9;
                     (salbutamol) 18559-94-9; (terazosin) 63074-08-8,
                     63590-64-7; (terbutaline) 23031-25-6; (trospium
                     chloride) 10405-02-4
                     Dridase; Mictonorm; Uroripirin; Spasmex; Spasuret;
                     Bricanyl; Spiropent; Tofranil; Amuno; Froben; Voltaren;
                     Flotrin; Myocholine; Ubretid
                       EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
L146 ANSWER 30 OF 35
                      95188724 EMBASE
ACCESSION NUMBER:
                      1995188724
                      Recent progress in the pharmacotherapy of diseases of the
                      lower urinary tract.
                      Hieble J.P.; McCafferty G.P.; Naselsky D.P.; Bergsma D.J.;
                      Ruffolo Jr. R.R.
                      Pharmacological Sciences, SmithKline Beecham
CORPORATE SOURCE:
                      Pharmaceuticals, P.O.Box 1539, King of Prussia, PA 19406,
                      United States
                      European Journal of Medicinal Chemistry, (1995) 30/SUPPL.
                      (269s-298s).
                      ISSN: 0223-5234 CODEN: EJMCA5
                      France
                      Journal; Conference Article
```

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FILE SEGMENT:
                     008
                              Neurology and Neurosurgery
                     028
                              Urology and Nephrology
                     030
                              Pharmacology
                     037
                              Drug Literature Index
                     038
                              Adverse Reactions Titles
LANGUAGE:
                     English
                     Medical Descriptors:
CONTROLLED TERM:
                       *prostate hypertrophy: SU, surgery
                       *prostate hypertrophy: DT, drug therapy
                     *urine incontinence
                     animal model
                     animal tissue
                     conference paper
                     controlled study
                     dog
                     guinea pig
                     human
                     intravenous drug administration
                     nonhuman
                     rat
                     torsade des pointes
                     xerostomia
                     Drug Descriptors:
                     *adrenergic receptor stimulating agent: DT, drug therapy
                       *alpha adrenergic receptor blocking agent: DT, drug
                     *potassium channel affecting agent: DT, drug therapy
                     *steroid 5alpha reductase inhibitor: DT, drug therapy
                     alfuzosin: DT, drug therapy
                     tamsulosin: DT, drug therapy
                     cromakalim: DT, drug therapy
                     emepronium: DT, drug therapy
                     epristeride: DT, drug therapy finasteride: DT, drug therapy
                     flutamide: DT, drug therapy
                     furosemide: DT, drug therapy
                     midodrine: DT, drug therapy
                       midodrine: CB, drug combination
                     mk 0963: DT, drug therapy
                       muscarinic receptor blocking agent: DT, drug
                     therapy
                       muscarinic receptor blocking agent: AE, adverse drug
                     reaction
                     naftopidil: DT, drug therapy
                     otenzepad: DT, drug therapy
                       oxybutynin: DT, drug therapy
                     pinacidil: DT, drug therapy
                       prazosin: DT, drug therapy
                     propantheline bromide: DT, drug therapy
8 [3 [4 (2 methoxyphenyl) 1 piperazinyl]propylcarbamoyl] 3
                     methylflavone: DT, drug therapy
                     sl 890591: DT, drug therapy
                     tachykinin receptor antagonist: DT, drug therapy
                       terazosin: CB, drug combination
                       terazosin: DT, drug therapy
                     terodiline: AE, adverse drug reaction
                     terodiline: DT, drug therapy
                     turosteride: DT, drug therapy
                     unindexed drug
                     unclassified drug
CAS REGISTRY NO.:
                     (alfuzosin) 81403-80-7; (tamsulosin) 80223-99-0;
                     (cromakalim) 94470-67-4; (emepronium) 27892-33-7;
```

Jones

CHEMICAL NAME:

ACCESSION NUMBER:

CORPORATE SOURCE:

DOCUMENT TYPE:

CONTROLLED TERM:

FILE SEGMENT:

DOCUMENT NUMBER:

TITLE:

AUTHOR:

SOURCE:

COUNTRY:

LANGUAGE:

```
(epristeride) 119169-78-7; (finasteride) 98319-26-7;
                    (flutamide) 13311-84-7; (furosemide) 54-31-9; (midodrine)
                    3092-17-9, 42794-76-3; (naftopidil) 57149-07-2; (otenzepad)
                    100158-38-1, 102394-31-0; (oxybutynin) 1508-65-2,
                    5633-20-5; (pinacidil) 60560-33-0; (prazosin)
                    19216-56-9, 19237-84-4; (propantheline
                    bromide) 298-50-0, 50-34-0; (8 [3 [4 (2 methoxyphenyl) 1
                    piperazinyl]propylcarbamoyl] 3 methylflavone) 152735-23-4;
                    (terazosin) 63074-08-8, 63590-64-7;
                    (terodiline) 15793-40-5, 7082-21-5; (turosteride)
                    137099-09-3
                    Sb 216469; Mk 0963; Sl 890591
L146 ANSWER 31 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
                    92348791 EMBASE
                    1992348791
                     [Urological pathology in the elderly].
                    PATOLOGIA UROLOGICA EN EL ANCIANO.
                    Cots Yago J.M.
                    ABS Dr. Carles Ribas, Barcelona, Spain
                    Atencion Primaria, (1992) 10/6 (837-838+840-842).
                    ISSN: 0212-6567 CODEN: ATEPEY
                     Spain
                     Journal; General Review
                             General Pathology and Pathological Anatomy
                     005
                     020
                             Gerontology and Geriatrics
                             Urology and Nephrology
                     028
                             Drug Literature Index
                     037
                     Spanish
                     Medical Descriptors:
                       *prostate hypertrophy: DT, drug therapy
                       *prostate hypertrophy: SU, surgery
                     *urinary tract infection: DT, drug therapy
                     *urine incontinence: DT, drug therapy
                     aged
                     female
                     human
                     male
                     review
                     Drug Descriptors:
                     *antibiotic agent: DT, drug therapy
                     *imipramine: DT, drug therapy
                       *oxybutynin: DT, drug therapy
                       *prazosin: DT, drug therapy
                     *propantheline bromide: DT, drug therapy
                       *terazosin: DT, drug therapy
                     amoxicillin: DT, drug therapy
                       amoxicillin: CB, drug combination
                     cefonicid: DT, drug therapy
                     clavulanic acid: DT, drug therapy
                       clavulanic acid: CB, drug combination
                     norfloxacin: DT, drug therapy
                     pipemidic acid: DT, drug therapy
                     (imipramine) 113-52-0, 50-49-7; (oxybutynin)
CAS REGISTRY NO .:
                     1508-65-2, 5633-20-5; (prazosin)
                     19216-56-9, 19237-84-4; (propantheline
                     bromide) 298-50-0, 50-34-0; (terazosin) 63074-08-8
                       63590-64-7; (amoxicillin) 26787-78-0,
                     61336-70-7; (cefonicid) 61270-58-4, 61270-78-8; (clavulanic
                     acid) 58001-44-8; (norfloxacin) 70458-96-7; (pipemidic
                     acid) 51940-44-4
```

Jones 09/778290 Page 81

L146 ANSWER 32 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 92030436 EMBASE

DOCUMENT NUMBER: 1992030436

TITLE: Benign and malignant prostatic diseases.

AUTHOR: Crawford E.D.

University of Colorado Health Sciences Center, Denver, CO, CORPORATE SOURCE:

United States

SOURCE: American Family Physician, (1991) 44/5 SUPPL. (65S-70S).

ISSN: 0002-838X CODEN: AFPYAE

COUNTRY:

United States

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

016 Cancer

020 Gerontology and Geriatrics 028 Urology and Nephrology

030 Pharmacology

037 Drug Literature Index

LANGUAGE:

English

SUMMARY LANGUAGE:

English

ABSTRACT:

The risk of prostatic diseases and disorders increases with age. Symptomatic benign prostatic hyperplasia is often treated with transurethral resection of the prostate. Antibiotic therapy is generally effective in bacterial prostatitis, but both chronic bacterial prostatitis with recurrent urinary tract infection and nonbacterial prostatitis remain difficult to treat. Early diagnosis of prostate cancer improves survival. Therapeutic options include surgery, radiotherapy and hormone therapy.

CONTROLLED TERM:

Medical Descriptors: \*prostate cancer: DI, diagnosis

\*prostate cancer: DT, drug therapy

\*prostate hypertrophy: DI, diagnosis \*prostate hypertrophy: TH, therapy

\*prostatitis: DI, diagnosis \*prostatitis: ET, etiology \*prostatitis: TH, therapy

adult human male

priority journal

review

Drug Descriptors:

\*antibiotic agent: DT, drug therapy

\*estrogen: DT, drug therapy \*goserelin: DT, drug therapy

\*leuprorelin: DT, drug therapy

\*nonsteroid antiinflammatory agent: DT, drug therapy

\*oxybutynin: DT, drug therapy

alpha adrenergic receptor blocking agent: DT, drug

therapy

carbenicillin: DT, drug therapy

carindacillin

cefalexin: DT, drug therapy ciprofloxacin: DT, drug therapy cotrimoxazole: DT, drug therapy diazepam: CB, drug combination

diazepam: DT, drug therapy

doxycycline

erythromycin: DT, drug therapy ofloxacin: DT, drug therapy minocycline: DT, drug therapy norfloxacin: DT, drug therapy

prazosin: DT, drug therapy prazosin: CB, drug combination sulfamethoxazole: CB, drug combination

sulfamethoxazole: DT, drug therapy trimethoprim: CB, drug combination

trimethoprim: DT, drug therapy

CAS REGISTRY NO .:

(goserelin) 65807-02-5; (leuprorelin) 53714-56-0,

74381-53-6; (oxybutynin) 1508-65-2,

5633-20-5; (carbenicillin) 17230-86-3, 4697-36-3, 4800-94-6; (carindacillin) 26605-69-6, 35531-88-5; (cefalexin) 15686-71-2, 23325-78-2; (ciprofloxacin)

85721-33-1; (cotrimoxazole) 8064-90-2; (diazepam) 439-14-5;

(doxycycline) 10592-13-9, 17086-28-1, 564-25-0; (erythromycin) 114-07-8, 70536-18-4; (ofloxacin) 82419-36-1; (minocycline) 10118-90-8, 11006-27-2, 13614-98-7; (norfloxacin) 70458-96-7; (prazosin)

19216-56-9, 19237-84-4;

(sulfamethoxazole) 723-46-6; (trimethoprim) 738-70-5

Bactrim; Septra; Geocillin; Minocin; Vibramycin; Noroxin; CHEMICAL NAME:

Cipro; Floxin; Ditropan; Minipress; Lupron; Zoladex

L146 ANSWER 33 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

88234769 EMBASE

DOCUMENT NUMBER:

1988234769

Ruffmann R.

TITLE:

A review of flavoxate hydrochloride in the treatment of

urge incontinence.

AUTHOR:

CORPORATE SOURCE:

SOURCE:

Medical Department, Recordati SpA, 20148 Milan, Italy

Journal of International Medical Research, (1988) 16/5

(317-330).

United Kingdom

ISSN: 0300-0605 CODEN: JIMRBV

COUNTRY:

DOCUMENT TYPE:

Journal

FILE SEGMENT:

Urology and Nephrology 028

052 Toxicology 030

Pharmacology

Drug Literature Index 037 Adverse Reactions Titles 038

LANGUAGE:

English

SUMMARY LANGUAGE:

English

ABSTRACT:

This article provides a review of the use of flavoxate hydrochloride in the treatment of urge incontinence. It outlines the pharmacology, mode of action, toxicology and pharmacokinetic studies which have been carried out, and then reviews the clinical studies, including those involving patients with benign prostatic hypertrophy. The effects of dosages of 600-1200 mg/day are compared, particularly regarding safety and tolerability factors. Finally, alternative therapies to flavoxate hydrochloride (.alpha.-adrenergic receptor blockers, oxybutinin chloride, terodiline hydrochloride, emepronium bromide and imipramine) are summarized. The article is written in the knowledge of recent evidence which indicates that flavoxate hydrochloride exhibits only weak anticholinergic activity on receptors involved in the control of the lower urinary tract.

CONTROLLED TERM:

Medical Descriptors:

\*prostate hypertrophy

\*urge incontinence: DT, drug therapy

anticholinergic effect depression: SI, side effect

drug mechanism

edema: SI, side effect headache: SI, side effect heartburn: SI, side effect

pharmacodynamics rash: SI, side effect

Searched by Barb O'Bryen, STIC 308-4291

Page 83

```
toxicity testing
vertigo: SI, side effect
xerostomia: SI, side effect
psychological aspect
review
human
priority journal
side effect
```

\*flavoxate: TO, drug toxicity
\*flavoxate: CB, drug combination

\*flavoxate: CM, drug comparison \*flavoxate: DO, drug dose \*flavoxate: DT, drug therapy \*flavoxate: PK, pharmacokinetics

\*flavoxate: PD, pharmacology
\*flavoxate: AE, adverse drug reaction

emepronium
imipramine
nicergoline
oxybutynin

phenoxybenzamine phentolamine

Drug Descriptors:

**prazosin** terodiline

CAS REGISTRY NO.: (flavoxate) 15301-69-6, 3717-88-2; (emepronium) 27892-33-7;

(imipramine) 113-52-0, 50-49-7; (nicergoline) 27848-84-6;

(oxybutynin) 1508-65-2, 5633-20-5;

(phenoxybenzamine) 59-96-1, 63-92-3; (phentolamine)

50-60-2, 73-05-2; (prazosin) **19216-56-9**, **19237-84-4**; (terodiline) 15793-40-5, 7082-21-5

L146 ANSWER 34 OF 35 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 85206589 EMBASE

DOCUMENT NUMBER:

1985206589

TITLE:

Characterization of the muscarinic cholinoceptors in the

human detrusor.

AUTHOR:

Nilvebrant L.; Andersson K.-E.; Mattiasson A.

CORPORATE SOURCE:

Department of Pharmacology, Research and Development,

KabiVitrum AB, Stockholm, Sweden

SOURCE:

Journal of Urology, (1985) 134/2 (418-423).

CODEN: JOURAA

COUNTRY:

United States

DOCUMENT TYPE:

Journal

FILE SEGMENT:

037 Drug Literature Index 028 Urology and Nephrology

030 Pharmacology 023 Nuclear Medicine

LANGUAGE:

English

ABSTRACT:

Contractions of the human detrusor are thought to be mediated mainly via cholinergic muscarinic receptors. In the present study, we used a receptor-binding technique with 1-quinuclidinyl[phenyl 4-3H]benzilate ((-)3H-QNB) as radioligand to directly demonstrate the presence of muscarinic receptors in homogenates of the human detrusor. The binding of (-)3H-QNB was of high affinity (K(D) = (1.2 .+-. 0.1) x 10-10 M), saturable (Ro = 160 .+-. 15 fmol./mg. protein) and possessed the pharmacological specificity expected of an interaction with muscarinic receptors. Muscarinic receptor antagonists were bound to a virtually uniform population of sites, whereas muscarinic receptor agonists recognized more than one population of muscarinic binding sites. The affinities of a series of antimuscarinic drugs, determined in competition experiments with (-)3H-QNB, were found to correlate with the capacity to inhibit carbachol-induced contractions in isolated human bladder muscle.

Binding data together with the functional data indicated that the human detrusor does not contain any significant number of muscarinic spare receptors. The results suggest that a selective effect on the muscarinic receptors of human bladder is not possible to obtain with presently available antimuscarinic agents.

CONTROLLED TERM:

Medical Descriptors: \*bladder contraction \*bladder muscle \*drug efficacy

\*drug interaction \*drug receptor binding

\*quinuclidinyl benzilate h 3 \*smooth muscle contraction

priority journal pharmacokinetics

muscle human

normal human

autonomic nervous system

bladder human cell

Drug Descriptors:

\*atropine \*carbachol

\*cholinergic receptor blocking agent

\*diazepam

\*dicycloverine \*emepronium \*imipramine \*methylatropine

\*muscarinic receptor

\*oxybutynin \*prazosin

\*propantheline bromide

\*terbutaline \*terodiline radioisotope

CAS REGISTRY NO.:

(atropine) 51-55-8, 55-48-1; (carbachol) 462-58-8, 51-83-2; (diazepam) 439-14-5; (dicycloverine) 50815-09-3, 67-92-5, 77-19-0; (emepronium) 27892-33-7; (imipramine) 113-52-0,

50-49-7; (methylatropine) 31610-87-4; (oxybutynin)

1508-65-2, 5633-20-5; (prazosin)

19216-56-9, 19237-84-4; (propantheline

bromide) 298-50-0, 50-34-0; (terbutaline) 23031-25-6;

(terodiline) 15793-40-5, 7082-21-5 Amersham; Marion; Hoffmann la roche; Kabi vitrum; Pfizer;

COMPANY NAME:

Draco

EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V. L146 ANSWER 35 OF 35

ACCESSION NUMBER:

83242170 EMBASE

DOCUMENT NUMBER:

1983242170

TITLE:

Differences between binding affinities of some

antimuscarinic drugs in the parotid gland and those in the

urinary bladder and ileum.

AUTHOR:

SOURCE:

Nilvebrant L.; Sparf B.

CORPORATE SOURCE:

Dep. Pharmacol., KabiVirum AB, S-11287 Stockholm, Sweden Acta Pharmacologica et Toxicologica, (1983) 53/4 (304-313).

CODEN: APTOA6

COUNTRY:

Denmark

DOCUMENT TYPE:

Journal

FILE SEGMENT:

Drug Literature Index 037

Pharmacology 030

002 Physiology 023 Nuclear Medicine 011 Otorhinolaryngology 003 Endocrinology

LANGUAGE: ABSTRACT:

Possible differences between the muscarinic receptors in the guinea pig urinary bladder and those in the ileum and the parotid gland were investigated, using a receptor binding technique. The affinities of 18 antimuscarinic drugs were indirectly derived from the ability to inhibit the receptor-specific binding of the radioligand (-)3H-QNB. The Hill coefficients were close to unity which indicated that the drugs were bound to apparently uniform populations of receptors within each tissue. In contrast to traditional muscarinic antagonists, four drugs - namely, oxybutynine, dicyclomine, benzhexol and pirenzepine - bound with a significantly higher affinity in the parotid gland than in the urinary bladder and ileum. A tendency towards reversed selectivity was found for secoverine. Thus, the present results further support the hypothesis that differences in muscarinic receptor between tissues exist, e.g. smooth muscle compared with parotid gland, which can be detected only by certain antimuscarinic drugs.

CONTROLLED TERM:

Medical Descriptors:

## \*drug antagonism

- \*drug receptor binding
- \*quinea pig

English

- \*n,n dimethyl 3,3 diphenyl 2 butylamine
- \*quinuclidinyl benzilate h 3
- \*sympathetic nerve

### bladder

ileum

parotid gland

mouth

small intestine

pharmacokinetics

autonomic nervous system

nonhuman

animal cell

Drug Descriptors:

- \*4 aminobutyric acid
- \*atropine
- \*cholinergic receptor blocking agent
- \*diazepam
- \*dicycloverine
- \*emepronium
- \*haloperidol
- \*hexamethonium
- \*histamine
- \*mecamylamine
- \*metenkephalin
- \*morphine
- \*muscarinic receptor
- \*nicotine

## \*oxybutynin

- \*physostigmine
- \*pirenzepine
- \*practolol

### \*prazosin

- \*promethazine
- \*propantheline bromide
- \*quinidine
- \*receptor
- \*scopolamine methyl nitrate
- \*secoverine

```
*terbutaline
*terodiline
*theophylline
*trihexyphenidyl
*tubocurarine chloride
```

CAS REGISTRY NO.:

\*vohimbine (4 aminobutyric acid) 28805-76-7, 56-12-2; (atropine) 51-55-8, 55-48-1; (diazepam) 439-14-5; (dicycloverine) 50815-09-3, 67-92-5, 77-19-0; (emepronium) 27892-33-7; (haloperidol) 52-86-8; (hexamethonium) 60-26-4; (histamine) 51-45-6, 56-92-8, 93443-21-1; (mecamylamine) 60-40-2, 826-39-1; (metenkephalin) 58569-55-4; (morphine) 52-26-6, 57-27-2; (nicotine) 54-11-5; (oxybutynin) **1508-65-2**, **5633-20-5**; (physostigmine) 57-47-6, 64-47-1; (pirenzepine) 28797-61-7, 29868-97-1; (practolol) 6673-35-4; (prazosin) 19216-56-9, 19237-84-4; (promethazine) 58-33-3, 60-87-7; (propantheline bromide) 298-50-0, 50-34-0; (quinidine) 56-54-2; (scopolamine methyl nitrate) 6106-46-3; (secoverine) 57558-44-8; (terbutaline) 23031-25-6; (terodiline) 15793-40-5, 7082-21-5; (theophylline) 58-55-9, 5967-84-0, 8055-07-0, 8061-56-1, 99007-19-9; (trihexyphenidyl) 144-11-6, 52-49-3; (tubocurarine chloride) 57-94-3, 57-95-4, 8006-51-7; (yohimbine) 146-48-5, 65-19-0 Radiochemical centre (United Kingdom); Leo (Sweden);

COMPANY NAME:

Radiochemical centre (United Kingdom); Leo (Sweden);
Pharmacia (Sweden); Kabi vitrum (Sweden); Sigma (United States); Hoffmann la roche (Switzerland); Ici (United Kingdom); Merrell (United States); Schuchardt (Germany);
Recip (Sweden); Boehringer ingelheim (Germany); Pfizer

(United States); Draco (Sweden)

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controlled respiration (n=10; CR). Nonbaroreflex sequences were defined as >/=3 beats in which SAP and PI of the following beat changed in the opposite direction. CAB reduced the number of nonbaroreflex sequences (19. 1+/-12.3 versus 88.7+/-36.6, P<0.05), as did SB (25.3+/-11.7 versus 84.6+/-23.9, P<0.001) and atropine (11.2+/-6.8 versus 94.1+/-32.4, P<0.05). SB concomitantly increased baroreflex sensitivity (1.18+/-0. 11 versus 0.47 + /-0.09 ms/mm Hg, P<0.01). SAD and CR did not significantly affect their occurrence. CONCLUSIONS: These results suggest that nonbaroreflex sequences represent the expression of an integrated, neurally mediated, feed-forward type of short-term cardiovascular regulation able to interact dynamically with the feedback mechanisms of baroreflex origin in the control of heart period.

L118 ANSWER 5 OF 73

MEDLINE

ACCESSION NUMBER:

1998321928 MEDLINE

DOCUMENT NUMBER:

PubMed ID: 9660491 98321928

TITLE:

Synergistic receptor-activated calcium increases in-single

AUTHOR: CORPORATE SOURCE: nonpigmented epithelial cells.

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PURPOSE: To determine whether single nonpigmented ciliary body cells contain the signaling mechanism to produce synergistic drug-activated increases in Ca2+, or whether these responses are produced cooperatively by interaction among groups of cells. METHODS: Suspensions of single nonpigmented cells were plated onto soft collagen gels. Fura-2 fluorescence ratio imaging was used to examine receptor-evoked changes in intracellular Ca2+ concentration. RESULTS! Nonpigmented cells plated on soft collagen gels retained a rounded shape with membrane evaginations visible on their surface. Application of acetylcholine (10 microM) or epinephrine (1 microM) each produced small increases in intracellular Ca2+, but in combination they produced a Ca2+ increase of more than 10-fold. This synergistic Ca2+increase was a result of activation of muscarinic and alpha2 adrenergic receptors because a specific alpha2-adrenergic agonist could substitute for epinephrine in producing the response. The response could be blocked by a specific alpha2-antagonist and a muscarinic antagonist. An alpha1-agonist could not substitute for epinephrine in producing a synergistic increase nor could the synergism be blocked by alphal- or beta-antagonists. The Ca2+ increase was largely produced by release from internal stores, because the peak amplitude of the response was nearly the same in the external solution containing a low Ca2+ concentration; however, the influx of Ca2+ into the cell was responsible for maintenance of a steady component of the Ca2+ increase during maintained drug stimulation and for refilling the internal stores. CONCLUSIONS: Single nonpigmented cells can produce synergistic increases in Ca2+ on multiple receptor activation, indicating that the mechanism of synergism does not require the interaction of multiple cells. The Ca2+ increase is a result of release from internal stores and Ca2+ entry through an as yet undefined conductance or transport system in the plasma membrane.

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